AT&T Business Console – SAPMP - Gateway

REST APIs Reference Guide

Document Attributes

| **Attribute** | **Value** |
| --- | --- |
| Application ID /  Application Name | SAPMP API Gateway |
| Owner | Ravi Bhusarapu (br8591) and Sivashanmugam Muthusamy (sm7993) |
| Owner Contact Information |  |
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| Other Attribute |  |

## 

Revision History

The following table lists the revision history of this document:

| **Author** | **Date** | **Version** # | **Revision** **Description** |
| --- | --- | --- | --- |
| Joy Das | 03/10/2017 | 0.1 | Initial Version |
| Joy Das | 03/13/2017 | 0.2 | Segregated complex JSON object(s) in request as separate tables and specified the constituent attributes for each JSON object. |
| Joy Das | 03/14/2017 | 0.3 | Incorporated internal review comments. |
| Siva Muthusamy | 03/20/2017 | 0.4 | Updates after external review with SAPMP team.   * Added notes section to Inquire Accounts, Expire Account, Sign Apple Certificate, Upload Apple certificate, Create device enrollment,De-enroll device and create user APIs. * Added new API specification for Change device policy. * In Create Device Enrollment API for device JSON object renamed “deviceId” as “id” and updated description. |
| Siva Muthusamy  / Joy Das | 04/11/2017 | 0.5 | Updates in Common Request Header   * Added conditional attribute AccountPassPhrase to capture account password in non-account API calls   Updates in Sign Apple CSR API   * Specified unSignedCSR to be a File instead of String in the POST request * Updated sample request   Updated in Upload Apple Certificate API   * Specified appleMdmCertfile to be a File instead of String in the POST request * Updated Sample request   Updates in Create Device Enrollment API   * Removed passcodePolicyCode & securityPolicyCode from profile JSON object in the POST request. * Added policyName to the profile JSON object in the POST request. * Introduced liabilityType parameter to identify CRU or small business customer   Updates in Inquire Devices API   * appsInstalled JSON Object would be returned when deviceId is populated in the request   Updates in Change Device Policy API   * Renamed policySetName to policyName |
| Prashant Gupta | 04/12/2017 | 0.7 | Added Error Codes Section |
| Siva Muthusamy | 04/19/2017 | 0.8 | Rolled back policyCode related changes made in v0.5.  Added accepted values for passcodePolicyCode and securityPolicyCode.  Added additional input parameters for Change Device Policy API. |
| Joy Das | 05/01/2017 | 0.9 | Updates in createAccount API:  Renamed fanName to accountName in response  Updates in InquireAccounts API:  Removed search criteria attributes: fanName and emmAccountId  Made fan as the only required attribute in searchcriteria |
| Joy Das | 05/31/2017 | 1.0 | Updates in Apple Certificate Management  uploadcerts and signcerts API would take content-type as application/json instead of multipart/form-data. Also the payload would be a Base64 encoded string instead of file in both the APIs.  Updates in enrollDevice api to correct the example.  Added de-enroll device api for all devices under fan.  Updates in create Tenant account, Inquire Account for CR changes.  Changed the endpoint URL for device enroll and de-enroll services. |
| Siva Muthusamy / Joy Das | 06/20/2017 | 1.1 | API endpoint names changes for enroll, de-enroll, lock, wipe and deenroll device by fan services.  Minor updates to distribute apps, create user and delete applications  Clarified documentation regarding deviceId to be the MDM specific deviceId in inquire devices, deenroll, lock, wipe and changepolicy |

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# Overview

This document provides the SAPMP-Gateway API specification for AT&T Business Console.

API Gateway will provide various Rest services for below functionalities:-

* Allow customers to place MDM participation enrollment request with MDM Profile and enrollment.
* Device enrollment / de-enrollment.
* For iOS devices, allow customers to capture or upload iOS certificate retrieved from Apple.
* Allow customers to schedule and push the apps to devices.
* Device deployment activities and Lock and Wipe Devices.

### Common Standards followed by APIs Codes

#### **Definition:**

Clearly defines the purpose of the API with detailed information.

#### **Versioning:**

Current version of all APIs will be 1. As versions are added the documents and relative knowledge portals will be get updated.

* Sample: http[s]://host/<appName>/v1

#### **Request headers:**

* AT&T standard headers requirement for pattern-5 API federation will be followed.
* MDM/EMM specific headers are specific to providers and embedding of those headers taken care by application either mandate or default values.

#### **Default/Common Request headers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **REQUEST HEADER** | **TYPE** | **MANDATE** | **DEFAULT** | **DESCRIPTION** |
| Accept | String | YES | application/json | Media types the  client can process |
| Authorization | AAF Key TYPE | YES |  | Must pass through the AAF framework for authentication and authorization. |
| TrackingID | String | YES |  | A unique identifier that identifies any REST service request for tracking, logging and debugging. |
| EMMProductCode | String | YES |  | EMMProductCode for selected plan. |
| AccountPassPhrase | String | CONDITIONAL |  | Voltage encrypted tenant account password required when a non-account API is invoked. |

#### **HTTP Status Codes:**

The below status codes would be returned by the rest services detailed in this document.

|  |  |  |
| --- | --- | --- |
| **CODE** | **STATUS** | **DESCRIPTION** |
| 200 | Ok | The request has succeeded and response contains result. This is a general purpose response code that can be returned from any request. |
| 201 | Created | This is used to indicate successful resource creation. |
| 202 | Accepted | The request has been received and in-process. |
| 400 | Bad Request | This response means that server could not understand the request due to invalid syntax. |
| 401 | Unauthorized | This is used when there is a problem with the client’s credentials. It may have provided the wrong credentials or none at all. |
| 403 | Forbidden | Client does not have access rights to the content so server is rejecting to give proper response. |
| 404 | Not Found | This is used when a client’s URI cannot be mapped to a resource. The 404 error status code indicates that the API could not map the client’s URI to a resource. |
| 409 | Conflict | Indicates that a conflicting change has been detected during an attempt to modify a resource. |
| 415 | Unsupported Media Type | The data format of the request body, specified in the Content-Type header, is unsupported by the targeted resource. |
| 500 | Internal Server Error | An internal error occurred in the server. The server has encountered a situation its unable to handle currently. |

### Summary of REST APIs:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GROUP** | **SERVICE NAME** | **URI** | **HTTP Method** | **DESCRIPTION** |
| Account | [Create Tenant Account (EMM)](#_Create_Tenant_Account) | /accounts/createaccount | POST | Supports customer enrollment provisioning request to setup up customer with default profile. |
| Account | [Inquire Account](#_Inquire_Account) | /accounts?searchcriteria={…} | GET | Search customer accounts in MDM |
| Account | [Expire an Account](#_Expire_an_Account) | /accounts/{emmAccountId} | DELETE | Supports expiring an account which also expires all the devices under the account. |
| Account | [Sign Apple CSR request](#_Sign_Apple_CSR_1) | /accounts/{emmAccountId}/signcerts | POST | Supports signing apple certificate for iOS devices. |
| Account | [Upload Apple Certificate](#_Upload_Apple_Certificate) | /accounts/{emmAccountId}/uploadcerts | POST | Supports uploading apple certificate. |
| Device | [Create Device Enrollment](#_Create_Device_Enrollment) | /devices/enroll | POST | Supports multiple device enrollments that includes assigning device user and application distribution. |
| Device | [Inquire Devices](#_Inquire_Devices) | /devices?searchcriteria={…} | GET | Supports searching of devices by device attributes |
| Device | [Inquire Device Action History](#_Inquire_Device_Action) | /devices/history?searchcriteria={…} | GET | Supports searching device action history for a single device. |
| Device | [De-Enroll Device(s)](#_De-enroll_Device) | /devices/deenroll | POST | Supports single or multiple device de-enrollment. |
| Device | [De-Enroll Device](#_De-enroll_Device_1) | /devices/{fan}/deenroll | POST | Supports de-enrollment of all devices under a FAN. |
| Device | [Lock Device](#_Lock_Device) | /devices/{deviceId}/lock | POST | Supports locking the device. |
| Device | [Wipe Device (Full or Selective Wipe)](#_Wipe_Device) | /devices/{deviceId}/wipe | POST | Supports different types of wipes such as 'full', 'selective' |
| Device | [Change Policy](#_Change_Device_Policy) | /devices/{deviceId}/changepolicy | POST | Supports assigning new policy to the device. |
| Apps | [Distribute Appslications](#_Distribute_Applications) | /apps/distributeapp | POST | Supports application distribution. |
| Apps | [Delete Applications](#_Delete_App) | /apps/deleteapp | POST | Supports app removal. |
| User | [Create User](#_Create_User) | /users/{userName} | POST | Internal call for creating device end user. |

## Account

## Create Tenant Account

#### **Definition:**

#### Creates a consumer tenant account in MDM system. ~~By default FAN name will be assigned as an account name~~. ~~Multiple admin accounts can be created for a corporate account and each account created in MDM will be linked to a FAN by establishing an association at the time of account creation~~.

Notes:

* ~~Combination of PartnerBillingID + ProductCode + FanName will assigned as an account name in MDM system.~~
* SAPMP-GW uses combination of PartnerBillingID + ProductCode + AccountName as an account name in MDM system and the same is returned in the response.
* Account record should exist in CDF.

#### **URI:** POST /v1/accounts/createaccount

#### **Request Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| fan | String | YES | FAN number associated to the customer account for ease of operations with MDM vendor APIs. Used for CDF update and accountPassPhrase generation. |
| ~~fan~~accountName | String | YES | ~~FAN~~ Account Name. |
| email | String | YES | Email address of the account owner. Pass a fixed value as - [ATT-BUSCONS-ADMN@LIST.ATT.COM](mailto:ATT-BUSCONS-ADMN@LIST.ATT.COM) |
| productCode | String | NO | Product code – Specific ATT Product Code |
| language | String | NO | Default Language set for the account. Default = English. |
| forceAdminAcceptEULA | String | NO | Enforce acceptance of EULA. Default = No |
| committedLicenses | String | NO | Default=0 |

**Sample Request:**

POST https://serverBaseURL/<appName>/v1/accounts/createaccount

Accept: application/json

Content-Type: application/x-www-form-urlencoded

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"fan ":"121334"

"accountName":"AT&T CRU FIRST NAME & LAST NAME",

"email":"[ATT-BUSCONS-ADMN@LIST.ATT.COM](mailto:ATT-BUSCONS-ADMN@LIST.ATT.COM)",

"productCode ":"IBMMass360Free"

}

**Response JSON attributes:**

|  |  |  |
| --- | --- | --- |
| **Response Parameters** | **TYPE** | **DESCRIPTION** |
| emmAccountId | String | Unique identifier of the account established with MDM |
| accountName | String | Account Name of Tenant Account in MDM Vendor |
| accountPassPhrase | String | Voltage Encrypted Passphrase assigned at the time of account creation |
| accountStatus | String | ACTIVE or INACTIVE |
| cdfUpdate | String | SUCCESS or FAILURE. To Indicate whether account status and account passphrase update is successful or not in CDF for the given FAN + ProductCode combination. |

**Sample Response:**

HTTP/1.1 201 Created

Date: Tue, 28 Feb 2017 05:22:22 GMT

Content-Type: application/json

Content-Length: 144

{

"account": {

"emmAccountId":"2001234",

" accountName ":"1234: IBMMass360Free:ABCCorp",

" accountPassPhrase ":"@#$#4242",

" accountStatus ":"ACTIVE",

" cdfUpdate ":"SUCCESS"

}

}

## Inquire Account

#### **Definition:**

#### This operation will return customer accounts directly under a Partner Billing account.

#### Notes:

#### Only customer accounts directly under this account are listed.

#### emmAccountId or ~~fan~~accountName or productCode is conditionally required for account lookup.

**URI:** GET /v1/accounts?searchcriteria={"emmAccountId":"","accountName":"", "productCode":"","pagesize":"","pageNumber":""}

#### **Request Query Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Query Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | Conditional | Unique identifier of the account established with MDM. |
| ~~fan~~accountName | String | Conditional | Partial (Starts with) or full Customer Account Name string to be searched for. |
| ~~fan~~ | ~~String~~ | ~~YES~~ | ~~Account ID for the customer in Partner’s Billing system. Used for mapping accounts from Partner’s system to MaaS360.~~ |
| productCode | String | Conditional | Product code – ATT soccode of the MDM plan. |
| pageSize | String | NO | Limit number of devices returned at one time. Allowed page sizes: 25, 50, 100, 200, 250. Default value: 50 |
| pageNumber | String | NO | Results specific to a particular page. Default is first page. |

**Sample Request Header:**

GET https://serverBaseURL/<appName>/v1/accounts?searchcriteria={"emmAccountId":"231232","accountName ":"ABCorp",productCode":"IBMMass360Trial121334","pageSize":"50","pageNumber":"1"}

Accept: application/json

**Response JSON attributes:**

|  |  |  |
| --- | --- | --- |
| **Response Parameters** | **TYPE** | **DESCRIPTION** |
| metaData | JSON Object | Captures count, pageSize, pageNumber etc of the returned search results. |
| emmAccountId | String | Unique identifer of the account established with MDM |
| accountType | String | Account Type [PARTNER or CUSTOMER] |
| ~~fan~~ | ~~String~~ | ~~Account ID for the customer in Partner’s Billing system.~~ |
| accountName | String | The customer account name set during account creation. |
| accountStatus | String | Account status [Active, InActive] |
| creationBy | String | The account created by name. |
| creationDate | String | The account creation date |
| committedLicenseCount | Numeric | -1 for null & otherwise integer value |
| service | String | The name of the service. |
| primaryAdminEmail | String | The email address of admin |
| language | String | The default language |

|  |  |  |
| --- | --- | --- |
| **metaData JSON object** | | |
| **Parameter** | **TYPE** | **DESCRIPTION** |
| count | Numeric | Total number of accounts. |
| pageSize | Numeric | Limit number of devices returned at one time. |
| pageNumber | Numeric | Results specific to a particular page. Default is first page |

**Sample Response:**

HTTP/1.1 200 OK

Date: Tue, 28 Feb 2017 05:22:22 GMT

Content-Type: application/json

Content-Length: 144

{

"accounts": {

"metaData": {

"count": "924",

"pageSize": "50",

"pageNumber": "2"

},

"account": [{

"emmAccountId": "1101234",

"accountType": " CUSTOMER",

"~~fan~~accountName": "ExampleCorp",

"accountStatus": "Active",

"creationBy": "RegistrationProcess",

"creationDate": "2012-01-19",

"trialDuration": "60",

"trialExpiryDate": "YYYY-MM-DD",

"customerConversionDate": "YYYY-MM-DD",

"committedLicenseCount": "100",

"service": "MDM",

"primaryAdminEmail": "admin@example.com",

"language": "English"~~,~~

~~"fan": "A1B2C3"~~

}]

}

}

## Expire an Account

#### **Definition:**

#### This operation will set the status of account to “expired”. This operation will de-enroll all the devices under the account and expiring the account.

Notes:

* Account record should exist in CDF.
* Query and get all the devices by emmAccountId.
* Remove MDM control from by de-enrolling the device(De-enrolling removes the MDM Control and then marks the device as Inactive).
* Once all device de-enrollment under the account completes, expire the customer account.
* MDM recommends that customer de-provisioning be monitored to make sure that all devices are released before expiring an account.
* Expire account is a long running process and client system should not allow any operation on the account until the account status becomes ‘InActive’.

**URI:** DELETE /v1/accounts/{emmAccountId}

#### **Request Path Parameter:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Account which needs to mark as expired. |

#### **Sample Request:**

DELETE https://serverBaseURL/oce/mdm/v1 /accounts/2001234

Accept: application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

#### **Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Apple Certificate Management

## Sign Apple CSR Request

#### **Definition:**

#### Supports signing apple certificate for iOS devices.

Note:

* CSR creation should follow the MDM guidelines.

#### **URI:** POST /v1/accounts/{emmAccountId}/signcerts

#### **Request Path and Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| unsignedCSR | ~~File~~String | YES | Payload of unsigned CSR encoded in Base64 format |

**Sample Request:**

POST https://serverBaseURL/<appName>/v1/accounts/123123/signcerts

Accept: application/json

Content-Type: ~~multipart/form-data~~ application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"unsignedCSR": ""

}

**Response JSON attributes:**

|  |  |  |
| --- | --- | --- |
| **Response Parameters** | **TYPE** | **DESCRIPTION** |
| signedCSR | String | Determines Signed Apple CSR |

**Sample Response:**

HTTP/1.1 200 OK

Date: Tue, 28 Feb 2017 05:22:22 GMT

Content-Type: application/json

Content-Length: 144

{

"signedCSR": "String"

}

## Upload Apple Certificate

**Definition:**

#### Supports uploading signed apple push notification certificate.

Note:

* The APNS Certificate from Apple site is in .pem format, and the file must be converted into PKS12 (.p12) format by using a private key and phrase.
* Each tenant account created in MDM systems requires signed apple certificate before start enrolling iOS devices.

#### **URI:** POST /v1/accounts/{emmAccountId}/uploadcerts

#### **Request Path and Payload parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| appleMdmCertfile | ~~File~~String | YES | App MDM Certificate encoded in Base64 format. |
| certificatePhrase | String | YES | Cerificate phrase used at the time of exporting the certificate to create .p12 file |

**Sample Request:**

POST https://serverBaseURL/<appName>/v1/accounts/123123/uploadcerts

Accept: application/json

Content-Type: ~~multipart/form-data~~ application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"appleMdmCertfile": "",

"certificatePhrase": "March2017!"

}

**Response JSON attributes:**

|  |  |  |
| --- | --- | --- |
| **Response Parameters** | **TYPE** | **DESCRIPTION** |
| status | Numeric | Numeric value identifying success or error  Possible values: 0: Success 1:Error |
| description | String | Description of success or error message |
| certExpiryDate | String | Determines the Apple Certificate expiry date |
| certTopic | String | Apple Certificate |

**Sample Response:**

HTTP/1.1 200 OK

Date: Tue, 28 Feb 2017 05:22:22 GMT

Content-Type: application/json

Content-Length: 144

{

"actionResponse": {

"status": "0",

"description": "Apple MDM Certificate has been uploaded successfully",

"certExpiryDate": "2016-11-30T05:52:53.011+00:00",

"certTopic": "com.apple.mgmt.External.711f921c-84ef-4a27-a930-e19884dad4bf"

}

}

## Device

## Create Device Enrollment

**Definition:**

#### Supports multiple device enrollments that includes creating & assigning device user and application distribution.

Note:

* Device should be eligible for enrollment as per AT&T device eligibility rules.
* Valid device record should exist in CDF.
* Supports multiple devices in a request. No of devices accepted in a single enrollment request will be based on configurable value.
* Send SMS to Device with link to download the MDM Software.
* Create device user in MDM.
* Create device enrollment request in MDM.
* Distributes the applications.
* Update Subscriber profile in TLG with tracking SOC.
* Enforce Walled Garden Settings (Apply APN Restriction or Remove APN Restriction).

#### **URI:** POST /v1/devices/enroll

#### **Request Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| fan | String | YES | FAN number associated to the customer account. |
| email | String | YES | Email address of the account admin. By default client passes [ATT-BUSCONS-ADMN@LIST.ATT.COM](mailto:ATT-BUSCONS-ADMN@LIST.ATT.COM). |
| liabilityType | String | NO | Identifies whether the devices enrolled are CRU or small business.  Expected Values: CRU or SMB |
| enrollments | JSON | YES | One or more enrollment request elements.  "enrollments": {  "enrollment": [{  "lineId":"",  "device": {  //deviceinfo  },  "user": {  //userinfo  },  "group": {  //groupinfo  },  "profile": {  //profileinfo  }  }]  } |
| device | JSON Object row(s) | YES | "device": {  "Id": "123",  "imei": "123",  "platform": "Android"  } |
| user | JSON | YES | "user": {  "firstName": "FName",  "lastName": "LName",  "ban": "548796255",  "ctn": "9724970888",  "email": "9724970888@txt.att.com",  "domain": "att.com"  } |
| group | JSON | NO | "group": {  "groupId": "G001",  "groupName": "Executives"  } |
| profile | JSON | YES | "profile": {  "profileId": "P001",  "profileName": "DefaultProfile",  "networkControl": "true",  "passcodePolicyCode": "SB",  "securityPolicyCode": "SN",  "applications": {  "application": [  {  //appinfo  },  {  //appinfo  }  ]  }  } |
| applications | JSON | YES | "application": {  "appId": "App1",  "appName": "App1",  "appType": "App1",  "appVersion": "1.1",  "platform": "iOS"  } |

|  |  |  |  |
| --- | --- | --- | --- |
| **enrollment JSON object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| lineId | String | YES | UUID identifying the enrollment request |
| device | JSON Object | YES | Device details |
| user | JSON Object | YES | User information |
| group | JSON Object | NO | Group information |
| profile | JSON Object | YES | Profile information |

|  |  |  |  |
| --- | --- | --- | --- |
| **device JSON object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| Id | String | YES | CDF primary key value of the device record. |
| imei | String | YES | Full imei of the device |
| platform | String | YES | iOS, Android, Windows |

|  |  |  |  |
| --- | --- | --- | --- |
| **user JSON object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| firstName | String | NO | User first name |
| lastName | String | NO | User last name |
| ban | String | YES | ban number |
| ctn | String | YES | User CTN |
| email | String | YES | Email address of the user. By default client passes [ctn@txt.att.net](mailto:ctn@txt.att.net) as the value. |
| domain | String | YES | Domain name. |

|  |  |  |  |
| --- | --- | --- | --- |
| **group JSON object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| groupid | String | YES | group identifier |
| groupName | String | YES | group name |

|  |  |  |  |
| --- | --- | --- | --- |
| **profile JSON object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| profileId | String | YES | profile identifier |
| profileName | String | YES | profile name |
| networkControl | String | YES | YES or NO value |
| passcodePolicyCode | String | YES | Passcode policy to be enforced for the device platform.  Valid Values - PN, PB and PS.  PN – Passcode None, PB – Passcode Basic, PS – Passcode Silver. |
| securityPolicyCode | String | YES | Security policy to be enforced for the device platform.  Valid Values – SB, SE.  SB – Security Basic, SE – Security Enhaced |
| applications | JSON Object | YES | List of applications to be distributed |

|  |  |  |  |
| --- | --- | --- | --- |
| **application JSON Object** | | | |
| **Paramter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| appId | String | YES | Application ID |
| appType | Numeric | YES | Possible values:  1: iOS Enterprise Application  2: iOS App Store Application  3: Android Enterprise Application  4: Android Market Application |
| appName | String | NO | Application Name |
| appVersion | String | NO | Application Version |
| platform | String | NO | iOS, Android, Windows |

#### **Sample Request:**

POST https://serverBaseURL/<appName>/v1/devices/enroll

Accept: application/json

Content-Type: application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"emmAccountId": "2001234",

"fan": "FAN000121213",

"email": "[ATT-BUSCONS-ADMN@LIST.ATT.COM](mailto:ATT-BUSCONS-ADMN@LIST.ATT.COM)",

"enrollments": {

"enrollment": [{

"lineId": "xnxn-9898-fghg-ghgh",

"device": {

"deviceId": "123",

"imei": "123",

"platform": "Android"

},

"user": {

"firstName": "FName",

"lastName": "LName",

"ctn": "9724970888",

"email": "9724970888@txt.att.net",

"domain": "att.com"

},

"group": {

"groupId": "G001",

"groupName": "Executives"

},

"profile": {

"profileId": "P001",

"profileName": "DefaultProfile",

"networkControl": "true",

"passcodePolicyCode": "PN",

"securityPolicyCode": "SB",

"applications": {

"application": [{

"appId": "App1",

"appType": "1"

},

{

"appId": "App2",

"appType": "1"

}]

}

}

}]

}}

#### **Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Inquire Devices

#### **Definition:**

#### Search for devices based on selected criteria.

Note:

* DeviceId and IMEI based serach is recommented to get specific device details.
* If deviceId is populated in the request the installed apps will also be returned in the response.

**URI:**  GET /v1/devices?searchcriteria={"emmAccountId":"","deviceStatus":"","phoneNumber":"","platform":"","deviceId":"","imei":"","pageSize":"","pageNumber":"" }

#### **Request Query Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Query Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| deviceStatus | String | NO | Active or Inactive |
| phoneNumber | String | NO | Phone Number that needs to be searched for |
| platform | String | NO | Windows  iOS  Android |
| deviceId | String | NO | Unique identifier of the device established with MDM  Full deviceId string that needs to be searched |
| imei | String | NO | Full imei or MEID of the device |
| pageSize | Integer | YES | Limit number of devices returned at one time.  Allowed page sizes: 25, 50, 100, 200, 250. Default value: 250 |
| pageNumber | Integer | NO | Results specific to a particular page .  Default value: 1 |

**Sample Request:**

GET https://serverBaseURL/<appName>/v1/devices?searchcriteria={"emmAccountId":" 123213","deviceStatus":" Active","phoneNumber":"4691231212","platform":" IOS","deviceId":"455454ef","imei":" 212312123","pageSize":"250","pageNumber":"1" }

Accept: application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

**Response JSON attributes:**

|  |  |  |
| --- | --- | --- |
| **Response Parameters** | **TYPE** | **DESCRIPTION** |
| deviceId | String | Unique identifier of the device established with MDM  ~~Determines Client Serial Number of the device~~ |
| phoneNumber | String | Determines the phone number |
| deviceName | String | Determines the Device name |
| email | String | Determines the email address |
| installedDate | String | Determines the installation date |
| lastReported | String | Determines the last reported date |
| deviceStatus | String | Determines the status of the device |
| platform | String | Determines the platform of the device |
| make | String | Determines the manufacturer of the device |
| model | String | Determines the action executed by the person |
| osName | String | Determines the operating system name |
| osServicePack | String | Determines the operating system service pack |
| imei | String | Determines the unique number to identify the mobile phones |
| managedStatus | String | Determines the Managed status |
| appsInstalled | JSON Object Rows | Determines the list of apps installed on the device.This is only returned when the deviceId request parameter is populated |

The list of installed apps will be returned only when deviceId is passed in the request. The JSON returned will be as below:

|  |  |  |  |
| --- | --- | --- | --- |
| **appsInstalled JSON Object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| appId | String | YES | Application ID |
| appName | String | YES | Application Name |
| appVersion | String | YES | Application Version |

**Sample Response:**

HTTP/1.1 200 OK

Date: Tue, 28 Feb 2017 05:22:22 GMT

Content-Type: application/json

Content-Length: 144

{

"devices": {

"device": {

"deviceId": "455454e f - gf4D0E6C29440C9FD0DF22 - efzxy - 12345667788 - XY - 345678",

"ban": "100156789",

"phoneNumber": "4699099424",

"deviceName": "asads-asd234",

"userName": "dlindsey",

"email": "4699099424@txt.att.com",

"installedDate": "2016-04-12T16:45:00",

"lastReported": "2016-05-09T17:13:15",

"deviceStatus": "Active",

"platform": "Android",

"make": "HTC",

"model": "ADR6400L",

"osName": "Android 2.2.1 (FRG83D)",

"osServicePack": "",

"imei": "99000032580168",

"managedStatus": "",

"appsInstalled": {

"app": [{

"id": "com.att.android.digitallocker",

"name": "AT&T Locker",

"version": "15.4.76.6.1"

}, {

"id": "com.yahoo.mobile.client.android.mail.att",

"name": "AT&T Mail",

"version": "4.9.2"

}]

}

}

}

}

## Inquire Device Action History

**Definition:**

#### Get the activities and actions performed related to single device under a tenant account id.

**URI:** GET /v1/devices/history?searchcriteria={"emmAccountId":"","deviceId":"","actionExecutionTimeFrom":"","actionExecutionTimeTo":"" }

#### **Request Query Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Query Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| deviceId | String | YES | Unique identifier of the device established with MDM  Full deviceId string that needs to be searched.  If populated, action history pertaining to the particular device is returned. |
| actionExecutionTimeFrom | String(GMT) | YES | Starting time when the action was executed |
| actionExecutionTimeTo | String(GMT) | YES | Ending time when the action was executed |

**Sample Request:**

GET [https://serverBaseURL/<appName>/v1/](https://serverBaseURL/%3cappname%3e/v1/)devices/history?searchcriteria={"emmAccountId":"123213","deviceId":"455454ef ","actionExecutionTimeFrom":"2016-11-30T05:52:53","actionExecutionTimeTo":"2016-12-30T05:52:53}

Accept: application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

#### **Response JSON attributes:**

|  |  |  |
| --- | --- | --- |
| **Response Parameters** | **TYPE** | **DESCRIPTION** |
| actionId | String | Determines who performed the action |
| platform | String | Determines the operating system name |
| deviceId | String | Determines Client Serial Number of the device |
| ctn | String | Determines Client phone Number |
| action | String | Determines the action taken |
| actionStatus | String | Determines the status of a prior executed action |
| actionExecutedBy | String | Determines the action executed by the person |
| actionExecutionTime | String | Determines the when the action was executed |
| errorDescription | String | Describes the error |

#### **Sample Response:**

HTTP/1.1 200 OK

Date: Tue, 28 Feb 2017 05:22:22 GMT

Content-Type: application/json

Content-Length: 144

{

"actionHistory": {

"actionStatusResponse": [

{

"actionId": "a2e13f",

"platform": "iOS",

"deviceId": "455454ef-gf4D0E6C29440C9FD0DF22-efzxy-12345667788-XY-345678",

"ctn": "4692342342",

"action": "Lock",

"actionStatus": "Pending",

"actionExecutedBy": "account-admin@att.com",

"actionExecutionTime": "2016-11-30T05:52: 53.011+00:00"

"errorDescription": ""

},

{

"actionId": "b2e13f",

"platform": "iOS",

"deviceId": "455454ef-gf4D0E6C29440C9FD0DF22-efzxy-12345667788-XY-345678",

"ctn": "4692342342",

"action": "Lock",

"userName": "dlindsey",

"actionStatus": "Pending",

"actionExecutedBy": "account-admin@att.com",

"actionExecutionTime": "2016-10-30T05:52: 53.011+00:00",

"errorDescription": ""

}

]

}

}

## De-enroll Device

#### **Definition:**

#### This operation will de-enroll the device by marking it as inactive.

#### Note:

#### Devices should be active under the requested emmAccountId.

* The maximum number of devices that can be de-enrolled in a single request will be set to a configurable value (100 devices).

**URI:** POST /devices/deenroll

#### **Request Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| deviceIds | JSON String Array | YES | Unique identifier of the device established with MDM  "deviceIds":["deviceId1","deviceId2"]. Max 100 deviceIds supported. |

#### **Sample Request:**

POST https://serverBaseURL/<appName>/v1/devices/deenroll

Accept: application/json

Content-Type: application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"emmAccountId": "1101234”,

"deviceIds":["23123","2334344"]

}

#### **Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## De-enroll Device by FAN

#### **Definition:**

#### This operation will de-enroll all the devices under a fan by marking it as inactive.

#### Note:

#### Devices should be active under the requested fan and emmAccountId.

**URI:** POST /devices/{fan}/deenroll

#### **Request Path and Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| fan | String | YES | FAN number associated to the customer account. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |

#### **Sample Request:**

POST https://serverBaseURL/<appName>/v1/devices/121334/deenroll

Accept: application/json

Content-Type: application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"emmAccountId": "1101234”

}

#### **Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Lock Device

#### **Definition:**

#### This operation will lock the device and can be executed on an iOS, Android or Windows phone.

**URI:** POST /v1/devices/{deviceId}/lock

#### **Request Path and Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| deviceId | String | YES | ~~Client Serial Number of the device~~ Unique identifier of the device established with MDM |

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |

#### **Sample Request:**

POST https://serverBaseURL/<appName>/devices/a2e13f/lock

Accept: application/json

Content-Type: application/json

{

"emmAccountId": "1101234”

}

#### **Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Wipe Device

#### **Definition:**

#### This operation will remote Wipe the device.

**URI:** POST /devices/{deviceId}/wipe

#### **Request Path and Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| deviceId | String | YES | ~~Client Serial Number of the device~~ Unique identifier of the device established with MDM |

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| wipeType | String | YES | Possible values  0 : full wipe  1: selective wipe |

**Sample Request:**

POST https://serverBaseURL/oce/mdm/v1/devices/a2e13f/wipe

Accept: application/json

Content-Type: application/x-www-form-urlencoded

{

"emmAccountId": "1101234”,

"wipeType" : "0"

}

**Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Change Device Policy

#### **Definition:**

#### This operation will assign a specific policy to the device.

**URI:** POST /devices/{deviceId}/changepolicy

#### **Request Path and Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| deviceId | String | YES | ~~Client Serial Number of the device~~ Unique identifier of the device established with MDM |

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| platform | String | YES | Device operating system. |
| passcodePolicyCode | String | YES | Passcode policy to be enforced for the device platform.  Valid Values - PN, PB and PS.  PN – Passcode None, PB – Passcode Basic, PS – Passcode Silver. |
| securityPolicyCode | String | YES | Security policy to be enforced for the device platform.  Valid Values – SB, SE.  SB – Security Basic, SE – Security Enhaced |

**Sample Request:**

POST https://serverBaseURL/oce/mdm/v1/devices/a2e13f/wipedevice

Accept: application/json

Content-Type: application/json

{

"emmAccountId": "1101234”,

"platform" : "Android",

"passcodePolicyCode" : "PB",

"securityPolicyCode" : "SN"

}

**Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Apps

## Distribute Applications

**Definition:**

#### Distribute the applications on devices enrolled under a given emmAccountID.

#### **URI:** POST /v1/apps/distributeapps

#### **Request Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| applications | JSON Object Rows | YES | "applications": {  "application": [{  "appId": "2123",  "appType": "1”  },  {  "appId": "2343",  "appType": "1”  }]  } |

|  |  |  |  |
| --- | --- | --- | --- |
| **application JSON Object** | | | |
| **Paramter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| appId | String | YES | Application ID |
| deviceId | String | YES~~NO~~ | Unique identifier of the device established with MDM. If not populated the app would be distributed to all the devices under the account. Not supported in 1707. |
| appType | Numeric | YES | Possible values:  1: iOS Enterprise Application  2: iOS App Store Application  3: Android Enterprise Application  4: Android Market Application |
| appName | String | NO | Application Name |
| appVersion | String | NO | Application Version |
| platform | String | NO | iOS, Android, Windows |

**Sample Request:**

POST https://serverBaseURL/<appName>/v1/apps/distributeapps

Accept: application/json

Content-Type: application/json

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"emmAccountId": "1007263",

"applications": {

"application": [{

"appId": "2123",

"appType": "1",

"deviceId": "wer234"

},

{

"appId": "2343",

"appType": "1",

"deviceId": "wer2344"

}]

}

}

**Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Delete Applications

**Definition:**

#### This operation will stop all distributions of the app and delete the app. It is supported only for iOS and Android devices.

The apps will be deleted from all the devices that are enrolled for the specified emmAccountId.

**URI:** POST /v1/apps/deleteapp

#### **Request Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |
| applications | JSON Object Rows | YES | "applications": {  "application": [{  "appId": "2123",  "appType": "1"  },  {  "appId": "2343",  "appType": "1"  }]  } |

|  |  |  |  |
| --- | --- | --- | --- |
| **applications JSON Object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| appId | String | YES | Unique ID of the application to be deleted |
| appType | Numeric | YES | Possible int value  1: iOS Enterprise Application  2: iOS App Store Application  3: Android Enterprise Application  4: Android Market Application |

**Sample Request:**

POST https:// serverBaseURL/<appName>/v1/apps/deleteapp

Accept: application/json

Content-Type: application/x-www-form-urlencoded

{

"emmAccountId": "1007263",

"applications": {

"application": [{

"appId": "2123",

"appType": "1"

}, {

"appId": "2343",

"appType": "1"

}]

}

}

**Sample Response:**

HTTP/1.1 202 Accepted

Date: Tue, 28 Feb 2017 05:22:22 GMT

## User

## Create User

**Definition:**

#### Creates a local user account in MDM system.

#### Notes:

#### User created in MDM will be linked to a device by establishing an association at the time of device enrollment.

#### **URI:** POST /v1/users/{userName}

#### **Request Path and Payload Parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| userName | String | YES | Username in the format ctn@txt.att.com |

|  |  |  |  |
| --- | --- | --- | --- |
| **Payload Parameters** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| user | JSON Object | Yes | Details of the user. |

|  |  |  |  |
| --- | --- | --- | --- |
| **user JSON object** | | | |
| **Parameter** | **TYPE** | **MANDATE** | **DESCRIPTION** |
| firstName | String | NO | First Name of the user |
| lastName | String | NO | Last Name of the user |
| ctn~~subscriberNumber~~ | String | YES | User CTN |
| email | String | YES | Email address of the user  Default: [ctn@txt.att.com](mailto:ctn@txt.att.com) |
| domain | String | YES | DOMAIN |
| emmAccountId | String | YES | Unique identifier of the account established with MDM |

**Sample Request:**

POST https://serverBaseURL/<appName>/v1/users/4699099424@txt.att.com

Accept: application/json

Content-Type: application/x-www-form-urlencoded

TrackingID: 1e1c5e47-fc62-47e0-a9ee-378af6b0dfe0

{

"firstName": "user1",

"lastName": "user1",

"subscriberNumber": "4699099424",

"email": "4699099424@txt.att.com",

"domain": "att.com"

}

**Sample Response:**

HTTP/1.1 201 Created

Date: Tue, 28 Feb 2017 05:22:22 GMT

## Error Codes

The error codes that can be returned are detailed below. The complete list of error codes will be made available after code completion as a separate document.

|  |  |  |
| --- | --- | --- |
| **Error Type** | **Error Code** | **Description** |
| Functional | E1001 | Invalid request parameters. |
| Functional | E1002 | Required fields missing in Input. |
| Functional | E4001 | Unable to perform MDM Operation. |
| Functional | E4002 | Unable to create EMM tenant account. |
| Functional | E4101 | Unable to enroll device. Create device user is failed. |
| Functional | E4102 | Unable to enroll device. Enroll device operation is failed. |
| System | E5001 | MDM system returned error. |
| System | E5002 | Downstream system unavailable. |
| System | E5003 | External System returned error. |
|  |  |  |

**Sample Response:**

{

"errorCode": "E1001",

"description ": " Invalid request parameters "

}