

webMethods Mobile Administrator API Reference

Version 9.7

October 2014

This document applies to webMethods Mobile Administrator Version 9.7 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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About this Guide

This guide describes how you can access webMethods Mobile Administrator through the REST API.

The guide deals with the following topics:

- Using REST Requests, see ["Using REST Requests" on page 9](#).
- Using REST Resources, see ["Using REST Resources" on page 71](#).
- Using Resource Bundles, see ["Using Resource Bundles" on page 91](#).

Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Narrowfont	Identifies storage locations for services on webMethods Integration Server, using the convention <i>folder.subfolder:service</i> .
UPPERCASE	Identifies keyboard keys. Keys you must press simultaneously are joined with a plus sign (+).
<i>Italic</i>	Identifies variables for which you must supply values specific to your own situation or environment. Identifies new terms the first time they occur in the text.
Monospace font	Identifies text you must type or messages displayed by the system.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.

Convention	Description
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

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- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

1 Using REST Requests

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Overview

webMethods Mobile Administrator REST requests can be used to:

- Retrieve the properties of managed applications, application versions and application categories.
- Add new application versions.
- Request the installation of applications on specified devices.
- Retrieve a list of updated applications on specified devices.

Content Type and Base Paths

The webMethods Mobile Administrator API is JSON based. To trigger JSON output, do one of the following:

- Set an `Accept: application/json` HTTP request header.
- Add the extension `.json` to the API URL paths, for example `/api/v1/apps.json`.

Note: This does not apply to requests that return images.

webMethods Mobile Administrator API uses the following base path: `/api/v1`.

Examples of full request paths are `/api/v1/apps` or `/api/v1/apps.json`.

Authentication

All webMethods Mobile Administrator REST requests require user authentication. There are three supported authentication methods:

- **Access token based authentication** Create an access token on a user's detail page in the web interface, and pass the token in each request via the `X-AppFresh-Access-Token` HTTP header or the `access_token` GET parameter.
- **HTTP basic authentication** (include user credentials on every request).
- **Cookie based authentication** (with explicit login). Post the parameters `user_session[username]` and `user_session[password]` to `/api/v1/login`. Store the session ID cookie appropriately and pass it to other requests. Perform a `GET /api/v1/logout` to logout at any time.

Note: It is required to use the HTTPS protocol.

Summary of REST Requests

webMethods Mobile Administrator provides the following REST requests:

Note: Note that in the following REST request summary and in the description of the individual requests the term "product" is used as a synonym for "application".

Device Filter

To filter category and application results to only include items that are suitable for the client, the following GET parameter may be appended to REST requests:

- `device_filter[manufacturer]` The name of the device manufacturer.
- `device_filter[model]` The device model.
- `device_filter[platform]` The name of the platform running on the device. To get a list of supported platforms, use the "[GET /api/v1/platforms](#)" on page 62 request.
- `device_filter[platform_version]` The current platform version of the device.

If the client device has already been registered, the following parameter is sufficient:

- `device_filter[device_id]` The device identifier.

Categories

For a list of attributes, see "[ProductCategory](#)" on page 82.

Request	Description
GET /api/v1/app_categories	Returns the complete list of application categories.
GET /api/v1/app_categories/{id}	Returns the details of an application category with a specified ID.
GET /api/v1/app_categories/{id}/apps	Returns a list of applications in a category with a specified ID.
GET /api/v1/app_categories/{id}/icon	Returns the icon of an application category with a specified ID in form of a 96x96 px PNG file.
POST /api/v1/app_categories	Creates a new application category.
PUT /api/v1/app_categories/{id}	Edits the fields of an application category with a specified ID.

Request	Description
DELETE /api/v1/app_categories/{id}	Deletes an application category with a specified ID.

Apps

For a list of attributes, see ["Product" on page 81](#).

Request	Description
GET /api/v1/apps	Returns a complete list of applications.
POST /api/v1/apps	Creates a new application.
GET /api/v1/apps/{product_id}	Returns the details of an application with a specified ID.
PUT /api/v1/apps/{product_id}	Edits the fields of an application with a specified ID.
DELETE /api/v1/apps/{product_id}	Deletes an application with a specified ID.
GET /api/v1/apps/{product_id}/icon	Returns the icon of an application with a specified ID in form of a 96x96 px PNG file.
GET /api/v1/apps/{product_id}/screenshot/{index}	Returns a screenshot of an application with a specified ID (only valid for an index that is referenced from the application dictionary).
GET /api/v1/apps/{product_id}/request_install_link/{platform}	Returns a dictionary with a key url containing a link (possibly with authentication parameters) that can be used to download the latest version of an application with a specified ID.
GET /api/v1/apps/{product_id}/versions	Returns a list of all versions of an application with a specified ID.
GET /api/v1/apps/{product_id}/versions/{id}	Returns the details of a version with a specified ID of an application with a specified ID.

Request	Description
POST /api/v1/apps/{product_id}/versions	Creates a new version of an application with a specified ID.
PUT /api/v1/apps/{product_id}/versions/{id}	Updates specific fields of a version with a specified ID of an application with a specified ID.
DELETE /api/v1/apps/{product_id}/versions/{id}	Deletes a version with a specified ID of an application with a specified ID.
GET /api/v1/apps/{product_id}/users	Returns a list of all permissions for each assigned user of an application with a specified ID.
POST /api/v1/apps/{product_id}/users	Creates a new permission set for a user of an application with a specified ID.
PUT /api/v1/apps/{product_id}/users/{product_user_id}	Updates permissions for a specific set with a specified ID of an application with a specified ID.
DELETE /api/v1/apps/{product_id}/users/{product_user_id}	Deletes a set of permissions with a specified ID of an application with a specified ID.
GET /api/v1/apps/recent	Returns a list of the ten most recent applications.
POST /api/v1/apps/create_agile_app	Creates a new application based on a stored application template (AgileApps Template ZIP).

Activity Logging

REST Request	Description
POST /api/v1/apps/{product_id}/log	Anonymously logs a client action on to an application with a specified ID.

Device Identifiers

The client is responsible for generating the device ID. It must ensure that the device ID is unique to the device and does not change. Examples are:

- apple:udid:bc933a993bd5e31a2f6049154274ec0e2d76fcfa (UDID, iOS 5 and earlier)

- `apple:vendorId:1DD28095-D747-4B04-8AA7-3439FFF47FBE` (Vendor Identifier, iOS 6 and later)
- `samsung:serial:ecda4c0aea9865be` (Android)

When upgrading to another device ID generation schema (such as a transition from iOS 5 to iOS 6), you must lookup the old device ID first (using `GET /devices/<identifier>`) to avoid creating a duplicate device.

Device REST Requests

REST Request	Description
<code>GET /api/v1/devices/{device_id}</code>	Returns information about a device.
<code>POST /api/v1/devices</code>	Creates a device.
<code>PUT /api/v1/devices/{device_id}</code>	Updates a device.
<code>GET /api/v1/devices/{device_id}/ios_mdm_profile_redirect</code>	Returns a JSON key url.
<code>GET /api/v1/devices/{device_id}/installed_apps</code>	Returns a list of applications on a device with a specified device identifier.
<code>GET /api/v1/devices/{device_id}/updates</code>	Returns a list of applications that have updates available on a device with a specified device identifier.
<code>GET /api/v1/devices/{device_id}/app/{product_id}</code>	Returns the status of an application with a specified ID on a device with a specified device identifier.
<code>PUT /api/v1/devices/{device_id}/app/{product_id}</code>	Updates the status of an application with a specified ID on a device with a specified device identifier.
<code>POST /api/v1/devices/{device_id}/app/{product_id}/install</code>	Marks an application with a specified ID for installation on a device with a specified device identifier.
<code>POST /api/v1/devices/{device_id}/app/{product_id}/remove</code>	Marks an application with a specified ID for removal on a device with a specified device identifier.

Resources

For a more detailed explanation of the resources concept, see ["Using Resource Bundles"](#) on page 91.

REST Request	Description
<code>GET /api/v1/resources/refs/{bundle_id}</code>	Returns a reference XML for the latest manifest of an application that is associated with a specified bundle ID.
<code>GET /api/v1/resources/objects/{sha1}</code>	Returns a resource with a specified SHA1 checksum.

Push Notifications

REST Request	Description
<code>POST /api/v1/apps/{product_id}/push/register</code>	Registers a push device for a product. Only one of the parameters must be set: <code>registrationId</code> , <code>pushTokenHex</code> , <code>mpns_uri</code> .
<code>POST /api/v1/apps/{product_id}/push_device_groups/add</code>	Adds one or more PushDevice resources to a group of PushDevices, a PushDeviceGroup resource.
<code>POST /api/v1/apps/{product_id}/push_device_groups/remove</code>	Removes one or more PushDevice resources from a PushDeviceGroup resource.
<code>DELETE /api/v1/apps/{product_id}/push_device_groups/{name}</code>	Deletes a PushDeviceGroup resource.
<code>POST /api/v1/apps/{product_id}/push/send</code>	Sends a push notification to a single device, if any of the following parameters is given: <code>registrationId</code> , <code>pushTokenHex</code> , <code>mpns_uri</code> . If the <code>push_group_name</code> parameter is set, it sends the push notification to all push devices, that belong to the given push group.

Certificates

REST Request	Description
GET /api/v1/certificates	Returns all code signing certificates.
GET /api/v1/certificates/{id}	Returns the code signing certificate with a specified ID.

iOS Provisioning Profiles

REST Request	Description
GET /api/v1/ios_provisioning_profiles	Returns all iOS Provisioning Profiles.
GET /api/v1/ios_provisioning_profiles/{id}	Returns the iOS Provisioning Profile with a specified ID.

Build Configs

REST Request	Description
GET /api/v1/apps/{product_id}/build_configs	Returns all build configurations of an application.
GET /api/v1/apps/{product_id}/build_configs/{id}	Returns a build configuration with a specified ID of an application.
POST /api/v1/apps/{product_id}/build_configs	Posts the build configurations of an application.
PUT /api/v1/apps/{product_id}/build_configs/{id}	Updates a build configuration of an application.
DELETE /api/v1/apps/{product_id}/build_configs/{id}	Deletes a build configuration with a specified ID of an application.
POST /api/v1/apps/{product_id}/build_configs/batch_launch	Launches build jobs based on the build configurations of an application.

REST Request	Description
GET /api/v1/build_configs/check_repo	Returns a BuildConfig resource that requires a check of its associated repository (if any).
GET /api/v1/build_configs/{id}/update_repo_check	Updates a BuildConfig resource with the latest available revision of the associated repository.

Build Jobs

REST Request	Description
GET /api/v1/build_jobs/next	Returns the next new build job.
GET /api/v1/build_jobs/{id}/inputfile/{role}	Returns the input file with the role that was specified for a build job with a specified ID.
GET /api/v1/build_jobs/{id}/outputfile/{role}	Returns the output file with the role that was specified for a build job with a specified ID.
POST /api/v1/build_jobs/{id}/outputfile	Attaches an output file to a build job with a specified ID.
PUT /api/v1/build_jobs/{id}	Updates a build job with a specified ID.
POST /api/v1/build_jobs/{id}/log_entries	Creates a new log entry for a build job.

Build Nodes

REST Request	Description
GET /api/v1/build_nodes	Returns all build nodes.
POST /api/v1/build_nodes	Creates a new build node.
GET /api/v1/build_nodes/{id}	Returns a build node with a specified ID.
DELETE /api/v1/build_nodes/{id}	Deletes a build node with a specified ID.
PUT /api/v1/build_nodes/{id}	Updates a build node with a specified ID.

User

For a list of parameters, see ["User" on page 88](#).

REST Request	Description
GET /api/v1/users/{user_id}	Returns details of a user with a specified ID.
POST /api/v1/users	Creates a new user.
PUT /api/v1/users/{user_id}	Edits the fields of a user with a specified ID.
DELETE /api/v1/users/{user_id}	Deletes a user with a specified ID.
GET /api/v1/users/{user_id}/products	Returns a list of all permissions for each assigned product of a user with a specified ID.

Comments and Ratings

REST Request	Description
POST /api/v1/apps/{product_id}/versions/{product_version_id}/rate	Adds a rating to a ProductVersion resource.
POST /api/v1/apps/{product_id}/versions/{product_version_id}/comment	Adds a user comment to the specified product version.
POST /api/v1/apps/{product_id}/rate	Adds a user rating to the specified product.
POST /api/v1/apps/{product_id}/comment	Adds a user comment to the specified product.
DELETE /api/v1/apps/{product_id}/versions/{product_version_id}/comment/{comment_id}	Deletes a comment associated with a ProductVersion resource.

Product Stages

REST Request	Description
GET /api/v1/product_stages	Returns a list of product stages.
POST /api/v1/product_stages	Creates a new product stages.
GET /api/v1/product_stages/{id}	Returns the details of a product stage with a specified ID.
PUT /api/v1/product_stages/{id}	Edits the fields of a product stage with a specified ID.
DELETE /api/v1/product_stages/{id}	Deletes a product stage with a specified ID.

Misc

REST Request	Description
GET /api/v1/siteicon	Returns the site's company logo in form of a 34px tall PNG file.
POST /api/v1/access_token	Creates a PerishableAccessToken for the current user.
GET /api/v1/check_credentials	Validates the provided user credentials.
GET /api/v1/platforms	Returns a list of Platform resources.
GET /api/v1/platforms/{id}	Returns the details of a Platform resource.
PUT /api/v1/tos/accept	Accepts the current terms of service for the authenticated user.
GET /api/v1/tos	Returns the current terms of service for the site.

POST /api/v1/app_categories

Creates a new application category.

Input Parameters

	Document ProductCategory resource, see "ProductCategory" on page 82.
<i>iconfile</i>	Image Optional. The application's icon.
<i>teaserfile</i>	Image Optional. Image that replaces the name of the category in the native client.

Output Parameters

Document ProductCategory resource, see ["ProductCategory" on page 82.](#)

See Also

[Categories](#)

GET /api/v1/app_categories

Returns the complete list of application categories.

Input Parameters

None.

Output Parameters

Document List List of ProductCategory resources, see ["ProductCategory" on page 82.](#)

See Also

[Categories](#)

PUT /api/v1/app_categories/{id}

Edits the fields of an application category with a specified ID.

Input Parameters

id **String** The application category identifier.

Document ProductCategory resource, see ["ProductCategory" on page 82.](#)

Output Parameters

Document ProductCategory resource, see ["ProductCategory" on page 82.](#)

See Also

[Categories](#)

GET /api/v1/app_categories/{id}

Returns the details of an application category with a specified ID.

Input Parameters

id **String** The application category identifier.

Output Parameters

Document ProductCategory resource, see ["ProductCategory" on page 82.](#)

See Also

[Categories](#)

DELETE /api/v1/app_categories/{id}

Deletes an application category with a specified ID.

Input Parameters

id **String** The application category identifier.

Output Parameters

None.

See Also

[Categories](#)

GET /api/v1/app_categories/{id}/apps

Returns a list of applications in a category with a specified ID.

Input Parameters

id **String** The application category identifier.

Output Parameters

Document List List of Product resources, see "[Product](#)" on [page 81](#).

See Also

[Categories](#)

GET /api/v1/app_categories/{id}/icon

Returns the icon of an application category with a specified ID in form of a 96x96 px PNG file. Returns HTTP status 404, if no icon is available for the application category.

Tip: It is recommended to use a 96x96 px replacement icon.

Input Parameters

id **String** The application category identifier.

Output Parameters

Image PNG file of the application's icon.

Usage Notes

The `Accept: application/json` HTTP header or the `.json` path extension must not be used with this REST request.

See Also

[Categories](#)

GET /api/v1/apps

Returns a complete list of applications.

Input Parameters

search **String** Optional. Filters applications that match the search string.

category **String** Optional. Returns only applications within the given category.

Output Parameters

Document List List of Product resources, see "[Product](#)" on [page 81](#).

See Also

[Apps](#)

POST /api/v1/apps

Creates a new application.

Input Parameters

	Document Product resource, see "Product" on page 81.
<i>splashportrait</i>	Image Optional. Splashscreen for portrait mode.
<i>splashlandscape</i>	Image Optional. Splashscreen for landscape mode mode.
<i>iOS[bundle_id]</i>	String Optional. Bundle identifier of iOS application.
<i>Android[bundle_id]</i>	String Optional. Package name of Android application.
<i>WP[bundle_id]</i>	String Optional. Product identifier of Windows Phone application.
<i>J2ME[bundle_id]</i>	String Optional. Java package name of Java Mobile application.
<i>MacOS[bundle_id]</i>	String Optional. Bundle identifier of Mac OS application.

Output Parameters

Document Product resource, see ["Product" on page 81.](#)

See Also

[Apps](#)

POST /api/v1/apps/create_agile_app

Creates a new application based on a stored application template (AgileApps Template ZIP).

Input Parameters

<i>product</i>	Document The product resource to be created.
<i>app_options</i>	String A nested parameter to pass key-value parameters to the template application. For

	instance, set <code>app_options[key]=value</code> to pass the parameter key to the application build.
<code>target_platforms[ios]</code>	Integer Optional. Set to 1 if building the application for iOS.
<code>target_platforms[android]</code>	Integer Optional. Set to 1 if building the application for Android.
<code>app_policies[disallow_copy_paste]</code>	Integer Optional. Set to 1 if copy and paste should be disabled in the application.
<code>app_policies[disallow_jailbreak]</code>	Integer Optional. Set to 1 if the application should not run on jailbroken/rooted devices.

Output Parameters

Document Product resource, see "[Product](#)" on page 81.

See Also

[Apps](#)

GET /api/v1/apps/recent

Returns a list of the ten most recent applications (ordered by the creation date of the latest stable application version).

Input Parameters

None.

Output Parameters

Document List List of Product resources, see "[Product](#)" on page 81.

See Also

[Apps](#)

GET /api/v1/apps/{product_id}

Returns the details of an application with a specified ID.

Input Parameters

product_id **String** The application identifier.

Output Parameters

Document Product resource, see "Product" on page 81.

See Also

[Apps](#)

PUT /api/v1/apps/{product_id}

Edits the fields of an application with a specified ID.

Input Parameters

product_id **String** The application identifier.

Document Product resource, see "Product" on page 81.

splashportrait **Image** Optional. Splashscreen for portrait mode.

splashlandscape **Image** Optional. Splashscreen for landscape mode mode.

Output Parameters

Document Product resource, see "Product" on page 81.

See Also

[Apps](#)

DELETE /api/v1/apps/{product_id}

Deletes an application with a specified ID.

Input Parameters

product_id **String** The application identifier.

Output Parameters

None.

See Also

[Apps](#)

GET /api/v1/apps/{product_id}/build_configs

Returns all build configurations of an application.

Input Parameters

product_id **String** The identifier of the application for which the build configurations are requested.

Output Parameters

Document List List of BuildConfig resources, see "[BuildConfig](#)" on page 73.

See Also

[Build Configs](#)

GET /api/v1/apps/{product_id}/build_configs/{id}

Returns a build configuration with a specified ID of an application.

Input Parameters

<i>product_id</i>	String The identifier of the application for which the build configurations are requested.
<i>id</i>	Integer The identification number of the build configuration.

Output Parameters

Document BuildConfig resource, see "[BuildConfig](#)" on [page 73](#).

See Also

[Build Configs](#)

POST /api/v1/apps/{product_id}/build_configs

Creates a build configuration for an application.

Input Parameters

<i>product_id</i>	String The identifier of the application for which the build configurations are created.
	Document BuildConfig resource, see " BuildConfig " on page 73 .

Output Parameters

Document BuildConfig resource, see "[BuildConfig](#)" on [page 73](#).

See Also

[Build Configs](#)

PUT /api/v1/apps/{product_id}/build_configs/{id}

Updates a build configuration of an application.

Input Parameters

<i>product_id</i>	String The identifier of the application for which the build configurations are updated.
<i>id</i>	Integer Identification number of the build configuration. Document BuildConfig resource, see " BuildConfig " on page 73 .

Output Parameters

Document BuildConfig resource, "[BuildConfig](#)" on [page 73](#).

See Also

[Build Configs](#)

DELETE /api/v1/apps/{product_id}/build_configs/{id}

Deletes a build configuration with a specified ID of an application.

Input Parameters

<i>product_id</i>	String The identifier of the application for which the build configurations are updated.
<i>id</i>	Integer The identification number of the build configuration.

Output Parameters

None.

See Also[Build Configs](#)

POST /api/v1/apps/{product_id}/build_configs/batch_launch

Launches build jobs based on the build configurations of an application.

Input Parameters

<i>product_id</i>	String The identifier of the application for which the build jobs are launched.
<i>version</i>	String The dot-separated version string of the build result.
<i>input</i>	File The input file (ZIP). Required, if any of the build configurations does not specify a repository to use. Is ignored otherwise.
<i>launch_build_configs[{id}]</i>	Integer For any build configuration ID. Can be specified multiple times to launch multiple build configs simultaneously. The value needs to be 1.

Output Parameters

<i>build_job_ids</i>	Integer List The identification numbers of build jobs that were created successfully.
----------------------	--

See Also[Build Configs](#)

POST /api/v1/apps/{product_id}/comment

Adds a user comment to the specified product.

Input Parameters

<i>product_id</i>	String The application identifier.
-------------------	---

<i>comment</i>	Document Comment resource, see " Comment " on page 79.
<i>rating</i>	Integer Optional. The rating or number of stars to rate, between 1 (lowest) and 5 (highest).

Output Parameters

None.

See Also

[Comments and Ratings](#)

GET /api/v1/apps/{product_id}/icon

Returns the icon of an application with a specified ID in form of a 96x96 px PNG file.

Tip: It is recommended to use a 96x96 px replacement icon.

Input Parameters

<i>product_id</i>	String The application identifier.
-------------------	---

Output Parameters

Image PNG file of the application's icon.

Usage Notes

The `Accept: application/json` HTTP header or the `.json` path extension must not be used with this REST request.

See Also

[Apps](#)

POST /api/v1/apps/{product_id}/log

Anonymously logs a client action on to an application with a specified ID. This request does not require authentication.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>version</i>	String The application version of the client.
<i>logaction</i>	String An application-specific identifier of the action that is being logged (for example <code>app_launch</code>).
<i>uuid</i>	String A UUID / iOS UDID / iOS 6 Vendor Identifier that uniquely identifies the client.
<i>platform</i>	String To get a list of supported platforms, use the "GET /api/v1/platforms" on page 62 request.
<i>platform_version</i>	String The platform version.

Output Parameters

None.

See Also

[Activity Logging](#)

POST /api/v1/apps/{product_id}/push_device_groups/add

Adds one or more PushDevice resources to a group of PushDevices, a PushDeviceGroup resource.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>name</i>	String The name of a PushDeviceGroup resource. If no PushDeviceGroup exists with the specified name, it is created automatically.
<i>push_device_ids</i>	Integer List List of identifications numbers of PushDevice resources to add to the PushDeviceGroup.

Output Parameters

None.

See Also

[Push Notifications](#)

POST /api/v1/apps/{product_id}/push_device_groups/remove

Removes one or more PushDevice resources from a PushDeviceGroup resource.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>name</i>	String The name of a PushDeviceGroup resource.
<i>push_device_ids</i>	Integer List List of identifications numbers of PushDevice resources to remove from the PushDeviceGroup.

Output Parameters

None.

See Also

[Summary of REST Requests](#)

DELETE /api/v1/apps/{product_id}/push_device_groups/{name}

Deletes a PushDeviceGroup resource.

Input Parameters

<i>product_id</i>	String The application identifier.
-------------------	---

name **String** The name of a PushDeviceGroup resource.

Output Parameters

None.

See Also

[Push Notifications](#)

POST /api/v1/apps/{product_id}/push/register

Registers a push device for a product. Only one of the parameters must be set: `registrationId`, `pushTokenHex`, `mpns_uri`.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>registrationId</i>	String Android GCM registration ID.
<i>pushTokenHex</i>	String iOS deviceToken in Hex format.
<i>mpns_uri</i>	String Microsoft Push Notification Service URI endpoint.

Output Parameters

Document PushDevice resource, see "[PushDevice](#)" on [page 83](#)

See Also

[Push Notifications](#)

POST /api/v1/apps/{product_id}/push/send

Sends a push notification to a single device, if any of the following parameters is given: `registrationId`, `pushTokenHex`, `mpns_uri`. If the `push_group_name` parameter is set, it sends the push notification to all push devices, that belong to the given push group.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>registrationId</i>	String Android GCM registration ID.
<i>pushTokenHex</i>	String iOS deviceToken in Hex format.
<i>mpns_uri</i>	String Microsoft Push Notification Service URI endpoint.
<i>push_group_name</i>	String Optional. The name of the PushDeviceGroup resource, see " PushDeviceGroup " on page 86
<i>badge</i>	Integer Optional. iOS only. Sets the badge number on the app icon.
<i>message</i>	String Optional. The push notification message.
<i>sound</i>	String Optional. iOS only. Plays a sound when the push is received. Set the parameter to <code>default</code> to play the default sound.
<i>apns_mode</i>	String Optional. Specifies the APNS environment to use when sending iOS push notifications. The default is <code>production</code> . Specify <code>development</code> to use the development environment.
<i>extra_params</i>	Object Optional. Contains any additional parameters which should be sent with the push notification.

Output Parameters

Document PushNotification resource, see "[PushNotification](#)" on page 87

See Also

[Push Notifications](#)

POST /api/v1/apps/{product_id}/rate

Adds a user rating to the specified product.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>score</i>	Integer The rating or number of stars to rate, between 1 (lowest) and 5 (highest).

Output Parameters

None.

See Also

[Comments and Ratings](#)

GET /api/v1/apps/{product_id}/request_install_link/{platform}

Returns a dictionary with a key `url` containing a link (possibly with authentication parameters) that can be used to download the latest version of an application with a specified ID.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>platform</i>	String The platform for which the download link is requested. To get a list of supported platforms, use the " GET /api/v1/platforms " on page 62 request.
<i>unstable</i>	Boolean Optional. Requests the latest unstable version, if the user has permissions to download unstable versions. Otherwise, the latest stable version is returned. The default is <code>false</code> .
<i>product_stage_id</i>	Integer Optional. Requests the latest version that is associated with the ProductStage resource specified by the ID.

Output Parameters

url **String** The download URL of the application.

See Also

[Apps](#)

GET /api/v1/apps/{product_id}/screenshot/{index}

Returns a screenshot of an application with a specified ID (only valid for an index that is referenced from the application dictionary). Returns HTTP status 404, if the index is invalid.

Input Parameters

product_id **String** The application identifier.

index **Integer** The screenshot index.

Output Parameters

screenshot **Image** Image file of the screenshot. Can be JPEG or PNG.

Usage Notes

The `Accept: application/json` HTTP header or the `.json` path extension must not be used with this REST request.

See Also

[Apps](#)

GET /api/v1/apps/{product_id}/users

Returns a list of all permissions for each assigned user of an application with a specified ID.

Input Parameters

product_id **String** The application identifier.

Output Parameters

Document List List of ProductUser resources, see ["ProductUser" on page 84.](#)

See Also

[Apps](#)

POST /api/v1/apps/{product_id}/users

Creates a new permission set for a user of an application with a specified ID.

Input Parameters

product_id **String** The application identifier.

Document ProductUser resource, see ["ProductUser" on page 84.](#)

Output Parameters

Document ProductUser resource, see ["ProductUser" on page 84.](#)

See Also

[Apps](#)

PUT /api/v1/apps/{product_id}/users/{product_user_id}

Updates permissions for the specified ProductUser resource.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>product_user_id</i>	Integer Identification number of the ProductUser resource. Document ProductUser resource, see " ProductUser " on page 84 .

Output Parameters

Document ProductUser resource, see "[ProductUser](#)" on [page 84](#).

See Also

[Apps](#)

DELETE /api/v1/apps/{product_id}/users/{product_user_id}

Deletes permissions for the specified ProductUser resource.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>product_user_id</i>	Integer Identification number of the ProductUser resource.

Output Parameters

None.

See Also

[Apps](#)

GET /api/v1/apps/{product_id}/versions

Returns a list of all versions of an application with a specified ID. The list is sorted, starting with the most recent version.

Input Parameters

product_id **String** The application identifier.

Output Parameters

Document List List of ProductVersion resources, see "[ProductVersion](#)" on page 85.

See Also

[Apps](#)

POST /api/v1/apps/{product_id}/versions

Creates a new application version of an application with a specified ID.

Input Parameters

product_id **String** The application identifier.

upload[datafile] **Boolean** Optional. Whether the created application version should be stable. The default is `true`.

stable **Boolean** Optional. Whether the created application version should be stable. The default is `true`.

Output Parameters

Document ProductVersion resource, see "[ProductVersion](#)" on page 85.

See Also

[Apps](#)

GET /api/v1/apps/{product_id}/versions/{id}

Returns the details of a version with a specified ID of an application with a specified ID.

Input Parameters

<i>id</i>	Integer Identification number of the version.
<i>product_id</i>	String The application identifier.

Output Parameters

Document ProductVersion resource, see "[ProductVersion](#)" on page 85.

See Also

[Apps](#)

PUT /api/v1/apps/{product_id}/versions/{id}

Updates specific fields of a version with a specified ID of an application with a specified ID.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>id</i>	Integer Identification number of the version.

Output Parameters

Document ProductVersion resource, see "[ProductVersion](#)" on page 85.

See Also

[Apps](#)

DELETE /api/v1/apps/{product_id}/versions/{id}

Deletes a version with a specified ID of an application with a specified ID.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>id</i>	Integer Identification number of the version.

Output Parameters

None.

See Also

[Apps](#)

POST /api/v1/apps/{product_id}/versions/{product_version_id}/comment

Adds a comment to a ProductVersion resource.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>product_version_id</i>	Integer Identification number of the ProductVersion resource.
<i>comment</i>	String Comment.

Output Parameters

None.

See Also

[Comments and Ratings](#)

DELETE /api/v1/apps/{product_id}/versions/{product_version_id}/comment/{comment_id}

Deletes a comment associated with a ProductVersion resource.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>product_version_id</i>	Integer Identification number of the ProductVersion resource.
<i>comment_id</i>	Integer The identification number of the Comment resource.

Output Parameters

None.

See Also

[Comments and Ratings](#)

POST /api/v1/apps/{product_id}/versions/{product_version_id}/rate

Adds a rating to a ProductVersion resource.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>product_version_id</i>	Integer Identification number of the ProductVersion resource.
<i>score</i>	Integer The rating (between 0 and 5).

Output Parameters

None.

See Also

[Comments and Ratings](#)

GET /api/v1/build_configs/check_repo

Returns a BuildConfig resource that requires a check of its associated repository (if any).

Input Parameters

None.

Output Parameters

Document BuildConfig resource, see "[BuildConfig](#)" on [page 73](#)

See Also

[Build Configs](#)

GET /api/v1/build_configs/{id}/update_repo_check

Updates a BuildConfig resource with the latest available revision of the associated repository.

Input Parameters

<i>id</i>	Integer The identification number of the BuildConfig resource.
<i>timestamp</i>	DateTime The date and time when the API client performed the repository check.
<i>revision</i>	String The current revision of the associated repository (git or Subversion).

Output Parameters

None.

See Also

[Build Configs](#)

GET /api/v1/build_jobs/next

Returns the next new build job.

Input Parameters

build_node_uuid **String** Specifies the UUID of the build node.

Output Parameters

Document BuildJob resource, see "[BuildJob](#)" on page 77.

See Also

[Build Jobs](#)

PUT /api/v1/build_jobs/{id}

Updates a build job with a specified ID.

Input Parameters

id **Integer** The identification number of the build job.

status **Integer** Optional. The status of the build job:

- 1 - running
- 2 - success
- 3 - failed

build_info[key]

Dictionary Optional. Adds any key to the build info field. Can be used to record information about the build environment. Keys can be nested as follows:
`build_info[topkey][subkey]=value.`

Output Parameters

None.

See Also

[Build Jobs](#)

GET /api/v1/build_jobs/{id}/inputfile/{role}

Returns the input file with the role that was specified for a build job with a specified ID.

Input Parameters

id **Integer** The identification number of the build job.

role **String** The role that was specified for the build job.

Output Parameters

File Input file with the role that was specified for the build job.

See Also

[Build Jobs](#)

GET /api/v1/build_jobs/{id}/outputfile/{role}

Returns the output file with the role that was specified for a build job with a specified ID.

Input Parameters

id **Integer** The identification number of the build job.

role **String** The role that was specified for the build job.

Output Parameters

File Output file with the role that was specified for the build job.

See Also

[Build Jobs](#)

POST /api/v1/build_jobs/{id}/outputfile

Attaches an output file to a build job with a specified ID.

Input Parameters

id **Integer** The identification number of the build job.

file **File** The file to be uploaded.

role **String** The role of the output file.

mimetype **String** Optional. The mimetype of the output file.

Output Parameters

None.

See Also

[Build Jobs](#)

POST /api/v1/build_jobs/{id}/log_entries

Creates a new log entry for a build job.

Input Parameters

id **Integer** Identification number of the build job.

<i>status</i>	Integer Checks the status of the build job. Can be: <ul style="list-style-type: none">■ 1 - success■ 2 - failed.
<i>command</i>	String The command that is executed by the build job.
<i>output</i>	String The output of the command.

Output Parameters

None.

See Also

[Build Jobs](#)

GET /api/v1/build_nodes

Returns all build nodes.

Input Parameters

None.

Output Parameters

Document List List of BuildNode resources, see "[BuildNode](#)" on page 76.

See Also

[Build Nodes](#)

POST /api/v1/build_nodes

Creates a new build node.

Input Parameters

Document BuildNode resource, see "[BuildNode](#)" on [page 76](#).

Output Parameters

Document BuildNode resource, see "[BuildNode](#)" on [page 76](#).

See Also

[Build Nodes](#)

GET /api/v1/build_nodes/{id}

Returns a build node with a specified ID.

Input Parameters

id **Integer** The identification number of the build node.

Output Parameters

Document BuildNode resource, see "[BuildNode](#)" on [page 76](#).

See Also

[Build Nodes](#)

DELETE /api/v1/build_nodes/{id}

Deletes a build node with a specified ID.

Input Parameters

id **Integer** The identification number of the build node.

Output Parameters

None.

See Also

[Build Nodes](#)

PUT /api/v1/build_nodes/{id}

Updates a build node with a specified ID.

Input Parameters

id **Integer** The identification number of the build node.

Document BuildNode resource, see "[BuildNode](#)" on [page 76](#).

Output Parameters

None.

See Also

[Build Nodes](#)

GET /api/v1/certificates

Returns all code signing certificates.

Input Parameters

None.

Output Parameters

Document List List of Certificate resources, see "[Certificate](#)" on [page 78](#).

See Also[Certificates](#)

GET /api/v1/certificates/{id}

Returns the code signing certificate with a specified ID.

Input Parameters

id **Integer** The identification number of the code signing certificate.

Output Parameters

Document Certificate resource, see "[Certificate](#)" on page 78.

See Also[Certificates](#)

GET /api/v1/check_credentials

Validates the provided user credentials (see "[Authentication](#)" on page 13).

Input Parameters

None.

Output Parameters

None.

See Also[Misc](#)[Authentication](#)

POST /api/v1/devices

Creates a device. On Android, returns a dictionary that contains the output parameters as listed below.

Input Parameters

<i>device_id</i>	String The device identifier.
<i>manufacturer</i>	String Optional. The name of the manufacturer.
<i>model</i>	String Optional. The device model.
<i>platform</i>	String The software platform of the device. Can be iOS or Android.
<i>pushToken</i> or <i>pushTokenBase64</i>	String Optional. An identification used to push messages to the device. <i>pushTokenBase64</i> is base64-encoded and recommended for iOS push tokens.

Output Parameters

<i>deviceCert</i>	String (Android only) The PEM-encoded device certificate and key.
<i>deviceToken</i>	String (Android only) The device authentication token associated with this device.

See Also

[Device REST Requests](#)

GET /api/v1/devices/{device_id}

Returns information about a device.

Input Parameters

<i>device_id</i>	String The device identifier.
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Output Parameters

Document Device resource, see "[Device](#)" on page 79

See Also

[Device REST Requests](#)

PUT /api/v1/devices/{device_id}

Updates a device.

Input Parameters

<i>device_id</i>	String The identifier of the device.
<i>managed</i>	Boolean Indicates whether the client will accept remote commands such as application installation or device lock and wipe. Can only be updated for Android clients. The default is <code>false</code> .
<i>platform_version</i>	String The platform version.
<i>pushToken</i> or <i>pushTokenBase64</i>	String An identification used to push messages to the device. <i>pushTokenBase64</i> is base64-encoded and recommended for iOS push tokens.

Output Parameters

None.

See Also

[Device REST Requests](#)

GET /api/v1/devices/{device_id}/app/{product_id}

Returns the status of an application with a specified ID on a device with a specified device identifier.

Input Parameters

<i>device_id</i>	String The device identifier.
<i>product_id</i>	Integer The application identifier.

Output Parameters

<i>version</i>	Integer The version number of the installed application (can be null).
<i>is_latest</i>	Boolean <code>True</code> if the installed version is the latest available version.
<i>status</i>	String Checks the status. Can be one of the following: <ul style="list-style-type: none"> ■ <i>installed</i> The application is installed. ■ <i>install_pending</i> The installation of the application is pending. ■ <i>removal_pending</i> The removal of the application is pending. ■ <i>installed_not_managed</i> The application was installed by the user but cannot be managed (removed etc.) by the device platform. ■ <i>not_installed</i> The application is not installed. In this case, the parameters <i>version</i> and <i>latest</i> are not returned.

See Also

[Device REST Requests](#)

PUT /api/v1/devices/{device_id}/app/{product_id}

Updates the status of an application with a specified ID on a device with a specified device identifier.

Input Parameters

<i>product_id</i>	String The application identifier.
-------------------	---

<i>device_id</i>	String The device identifier.
<i>version</i>	Integer The version number of the installed application (can be null).
<i>status</i>	String Checks the status. Can be one of the following: <ul style="list-style-type: none"> ■ <i>installed</i> The application is installed. ■ <i>installed_not_managed</i> The application is installed on an unmanaged device. ■ <i>not_installed</i> The application is not installed. In this case, the parameter <i>version</i> is not returned.

Output Parameters

None.

See Also

[Device REST Requests](#)

POST /api/v1/devices/{device_id}/app/{product_id}/install

Marks an application with a specified ID for installation on a device with a specified device identifier.

Input Parameters

<i>device_id</i>	String The device identifier.
<i>product_id</i>	String The application identifier.
<i>unstable</i>	Boolean Requests the latest unstable version if the user has permissions to download unstable versions. Otherwise, the latest stable version is returned. The default is <code>true</code>

Output Parameters

None.

See Also[Device REST Requests](#)

POST /api/v1/devices/{device_id}/app/{product_id}/remove

Marks an application with a specified ID for removal on a device with a specified device identifier.

Input Parameters

<i>product_id</i>	String The application identifier.
<i>device_id</i>	String The device identifier.

Output Parameters

None.

See Also[Device REST Requests](#)

GET /api/v1/devices/{device_id}/installed_apps

Returns a list of applications on a device with a specified device identifier.

Input Parameters

<i>device_id</i>	String The device identifier.
------------------	--------------------------------------

Output Parameters

<i>app</i>	Document Product resource, see " Product " on page 81.
<i>version</i>	Integer The version number of the installed application (can be null).

<i>is_latest</i>	Boolean <code>True</code> if the installed version is the latest available version.
<i>status</i>	String Checks the status. Can be one of the following: <ul style="list-style-type: none"> ■ <i>installed</i> The application is installed. ■ <i>install_pending</i> The installation of the application is pending. ■ <i>removal_pending</i> The removal of the application is pending. ■ <i>installed_not_managed</i> The application was installed by the user but cannot be managed (removed etc.) by the device platform.

See Also

[Device REST Requests](#)

GET /api/v1/devices/{device_id}/ios_mdm_profile_redirect

Returns a URL to redirect the user to the installation of an MDM profile for iOS.

Input Parameters

<i>device_id</i>	String The device identifier.
------------------	--------------------------------------

Output Parameters

<i>url</i>	String JSON key URL. Contains a single-use URL that points to an iOS configuration profile which may be opened in Mobile Safari for installation on the device.
------------	--

See Also

[Device REST Requests](#)

GET /api/v1/devices/{device_id}/updates

Returns a list of applications that have updates available on a device with a specified device identifier.

Input Parameters

device_id **String** The device identifier.

Output Parameters

Document List List of Product resources, see "[Product](#)" on [page 81](#).

See Also

[Device REST Requests](#)

GET /api/v1/ios_provisioning_profiles

Returns all iOS Provisioning Profiles.

Input Parameters

None.

Output Parameters

Document List List of IOSProvisioningProfile resources, see "[IOSProvisioningProfile](#)" on [page 80](#).

See Also

[iOS Provisioning Profiles](#)

GET /api/v1/ios_provisioning_profiles/{id}

Returns the iOS Provisioning Profile with a specified ID.

Input Parameters

id **Integer** The identification number of the iOS Provisioning Profile.

Output Parameters

Document `IOSProvisioningProfile` resource, see "[IOSProvisioningProfile](#)" on page 80.

See Also

[iOS Provisioning Profiles](#)

GET /api/v1/platforms

Returns a list of Platform resources.

Input Parameters

None.

Output Parameters

Document List List of Platform resources, see "[Platform](#)" on page 81

See Also

[Misc](#)

GET /api/v1/platforms/{id}

Returns the details of a Platform resource.

Input Parameters

id **Integer** Identification number of the Platform resource.

Output Parameters

Document Platform resource, see "[Platform](#)" on page 81.

See Also[Misc](#)

GET /api/v1/product_stages

Returns a list of product stages.

Input Parameters

None.

Output Parameters

Document List ProductStage resource, see ["ProductStage" on page 84](#).

See Also[Product Stages](#)

POST /api/v1/product_stages

Creates a new product stage.

Input Parameters

product_stage

Document ProductStage resource, see ["ProductStage" on page 84](#).

Output Parameters

None.

See Also[Product Stages](#)

GET /api/v1/product_stages/{id}

Returns the details of a product stage with a specified ID.

Input Parameters

id **Integer** The identification number of the product stage.

Output Parameters

Document ProductStage resource, see "[ProductStage](#)" on [page 84](#).

See Also

[Product Stages](#)

PUT /api/v1/product_stages/{id}

Edits the fields of a product stage with a specified ID.

Input Parameters

id **Integer** The identification number of the product stage.

Output Parameters

Document ProductStage resource, see "[ProductStage](#)" on [page 84](#).

See Also

[Product Stages](#)

DELETE /api/v1/product_stages/{id}

Deletes a product stage with a specified ID.

Input Parameters

id **Integer** The identification number of the product stage.

Output Parameters

None.

See Also

[Product Stages](#)

GET /api/v1/resources/refs/{bundle_id}

Returns a reference XML for the latest manifest of an application that is associated with a specified bundle ID.

Input Parameters

bundle_id **Integer** The bundle identification number of the application.

Output Parameters

File XML reference file of the latest manifest.

See Also

[Resources](#)

GET /api/v1/resources/objects/{sha1}

Returns a resource with a specified SHA1 checksum.

Input Parameters

sha1 **Integer** The SHA1 checksum of the resource.

Output Parameters

File Binary file.

See Also

[Resources](#)

POST /api/v1/users

Creates a new user.

Input Parameters

Document User resource, see "[User](#)" on page 88.

Output Parameters

Document User resource, see "[User](#)" on page 88.

See Also

[User](#)

GET /api/v1/users/{user_id}

Returns details of a user with a specified ID.

Input Parameters

user_id **String** The user identifier.

Output Parameters

Document User resource, see "[User](#)" on page 88.

See Also

[User](#)

PUT /api/v1/users/{user_id}

Edits the fields of a user with a specified ID.

Input Parameters

<i>user_id</i>	String The user identifier.
	Document User resource, see " User " on page 88.

Output Parameters

None.

See Also

[User](#)

DELETE /api/v1/users/{user_id}

Deletes a user with a specified ID.

Input Parameters

<i>user_id</i>	String The user identifier.
----------------	------------------------------------

Output Parameters

None.

See Also

[User](#)

GET /api/v1/users/{user_id}/products

Returns a list of all permissions for each assigned application of a user with a specified ID.

Input Parameters

user_id **String** The user identifier.

Output Parameters

Document List List of ProductUser resources, see "[ProductUser](#)" on page 84.

See Also

[User](#)

POST /api/v1/access_token

Creates a PerishableAccessToken for the current user.

Input Parameters

api_consumer **String** Valid APIConsumer identifier.

valid_until **DateTime** Optional. Indicates how long the access token is valid.

remaining_use_count_empty **Integer** Optional. Indicates how many times the access token can still be used.

Output Parameters

String The requested access token.

See Also

[Misc](#)

GET /api/v1/siteicon

Returns the site's company logo in form of a 34px tall PNG file.

Input Parameters

None.

Output Parameters

Image PNG file of site icon.

Usage Notes

The `Accept: application/json` HTTP header or the `.json` path extension must not be used with this REST request.

See Also

[Misc](#)

GET /api/v1/tos

Returns the current terms of service for the site.

Input Parameters

None.

Output Parameters

<i>tos</i>	String A user-defined text that needs to be accepted by the users of the Mobile Administrator before they can use it.
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See Also

[Misc](#)

PUT /api/v1/tos/accept

Accepts the current terms of service for the authenticated user.

Input Parameters

None.

Output Parameters

None.

See Also

[Misc](#)

2 Using REST Resources

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Overview

The following REST resources are accepted as input or output parameters of the REST requests that are described in ["Using REST Requests" on page 9](#).

Summary of REST Resources

webMethods Mobile Administrator provides the following REST resources:

REST Resource	Description
BuildConfig	Instances of the BuildConfig resource represent configurations needed to generate an executable file of a product.
BuildNode	Instances of the BuildNode resource represent programmes that execute build jobs and generate from source code an executable file of a product.
BuildJob	Instances of the BuildJob resource represent programmes that generate from source code an executable file. A build job runs on a build node and needs a build configuration.
Certificate	Instances of the Certificate resource represent X.509 certificate, optionally combined with an associated X.509 private key.
Comment	Instances of the Comment resource represent a comment by a user. Comments can be associated with Product resources or with specific ProductVersions of a Product.
Device	Instances of the Device resource represent a mobile device that is managed by Mobile Administrator.
IOSProvisioningProfile	Instances of the IOSProvisioningProfile resource represent Apple iOS provisioning profiles, a resource required for signing iOS applications.
Platform	Instances of the Platform resource represent a target platform of the mobile apps and devices managed by Mobile Administrator

REST Resource	Description
Product	Instances of the Product resource represent mobile applications that are managed by webMethods Mobile Administrator.
ProductCategory	Instances of the ProductCategory resource represent categories that can be used to organize mobile applications (Products).
ProductUser	Instances of the ProductUser resource represent a relationship between Product and User instances. They are used to define user access rights for a mobile application.
ProductVersion	Instances of the ProductVersion resource represent individual versions of a mobile application (Product).
ProductStage	Instances of the ProductStage resource represent global product stages that are associated with product versions.
PushDevice	Instances of the PushDevice resource represent a target device for a PushNotification resource.
PushDeviceGroup	Instances of the PushDeviceGroup resource represent a group of PushDevice resources. When a PushNotification is sent to a PushDeviceGroup, it is delivered to all PushDevices in this group.
PushNotification	Instances of the PushNotification resource represent a message (notification) that is delivered through one or more mobile devices through the push notification services of the mobile platform vendors (Apple, Google, Microsoft).
User	Instances of the User resource represent the user accounts of a webMethods Mobile Administrator instance.

BuildConfig

Instances of the BuildConfig resource represent configurations needed to generate an executable file of a product.

Attributes

<i>id</i>	Integer The identification number of the BuildConfig resource.
<i>xcode_schema_name</i>	String Optional, for iOS. Name of a schema in iOS or MacOS projects that is run through a build.
<i>increment_build_number</i>	Boolean Optional. Indicates whether the build number should be incremented by 1. The default is <code>false</code> .
<i>wmmd_enabled</i>	Boolean Optional, for webMethods Mobile Designer. Indicates whether webMethods Mobile Designer build is enabled. Set to 1 to enable webMethods designer build.
<i>wmmd_target_name</i>	String Optional, for webMethods Mobile Designer. The name of the webMethods Designer target.
<i>wmmd_sdk_version</i>	String Optional, for webMethods Mobile Designer. The version of webMethods Mobile Designer.
<i>sdk_version</i>	String Optional, for iOS. Indicates which iOS SDK should be used.
<i>wmmd_retain_intermediate_build_files</i>	Boolean Optional, for webMethods Mobile Designer. Indicates whether a copy of webMethods Mobile Designer intermediate files is stored. Set to 1 to store a copy of the webMethods Mobile Designer intermediate files.
<i>app_policies</i>	Dictionary Optional. A dictionary that contains policy flags for the application. Can contain the following fields: <ul style="list-style-type: none">■ <code>requires_authentication</code>■ <code>should_report_crashes</code>■ <code>register_push_notifications</code>■ <code>disallow_copy_paste</code>

- `disallow_itunes_filesharing`
- `disallow_jailbreak`
- `should_log_launch`

scheduled

Integer Optional. Specifies how many minutes after midnight the build job is automatically started.

next_scheduled_at

DateTime Read-only. Specifies the date and time on which the next build run is started. This value is calculated automatically from the *scheduled* parameter and cannot be modified.

path

String Optional. The path of the build manifest. The default is `"/"`.

override_app_name

Boolean Optional. Indicates whether the native application name should be overwritten by the application name of webMethods Mobile Administrator. The default is `false`.

override_app_icon

Boolean Optional. Indicates whether the native application icon should be overwritten by the application icon of webMethods Mobile Administrator. The default is `false`.

run_tests

Boolean Optional. Indicates whether any test should be executed by the build job. The default is `false`.

parameters

String Optional. Comma separated list of `key=value` pairs.

See Also

[Summary of REST Resources](#)

BuildNode

Instances of the BuildNode resource represent programs that execute build jobs and generate from source code an executable file of a product.

Attributes

<i>id</i>	Integer The identification number of the BuildNode resource.
<i>uuid</i>	String Unique identifier of the build node.
<i>hostname</i>	String Optional. The hostname of the computer on which the build node is running.
<i>ip_internal</i>	String Optional. The internal IP of the computer on which the build node is running.
<i>ip_external</i>	String Optional. The external IP of the computer on which the build node is running.
<i>jobs_failed</i>	Integer The number of jobs that failed.
<i>jobs_processed</i>	Integer The number of jobs that were processed on the build node.
<i>available_to_all</i>	Boolean Optional. Indicates whether the build node is available to all users. The default is <code>true</code> .
<i>status</i>	String The status of the build node. Can be <code>online</code> or <code>offline</code> .
<i>last_active_at</i>	DateTime Optional. The date and time on which the last build job was processed.
<i>version</i>	String Optional. The version of the build node.
<i>last_seen</i>	DateTime Optional. The date and time on which the build node was last seen by the backend.

See Also[Summary of REST Resources](#)

BuildJob

Instances of the BuildJob resource represent programmes that generate from source code an executable file. A build job runs on a build node and needs a build configuration.

Attributes

<i>id</i>	Integer The identification number of the BuildJob resource.
<i>status</i>	Integer Checks the status of the build job. Can be: <ul style="list-style-type: none">■ 0 - new■ 1 - running■ 2 - success■ 3 - error■ 99 - initializing. The default is 0.
<i>version</i>	String The version of the software the build job is going to build.
<i>build_number</i>	Integer The build number of the software the build job is going to build.
<i>launched_by_user_id</i>	Integer Optional. Identification number of the user who launched the build job.
<i>build_info</i>	String Optional. A dictionary containing information about the build job.
<i>queue_name</i>	String Optional. A build node supports various SKDs and SDK versions. The queue name specifies which SDK and SDK version is needed. Example: <code>build-ios-any</code> , or <code>build-ios-5.1</code> .
<i>product_version_id</i>	Integer Identification number of a product version.

build_node_id **Integer** Optional. Identification number of a build node.

See Also

[Summary of REST Resources](#)

Certificate

Instances of the Certificate resource represent X.509 certificate, optionally combined with an associated X.509 private key.

Attributes

<i>id</i>	Integer The identification number of the Certificate resource.
<i>certificate_pem</i>	String Read-only. A PEM-encoded representation of the private key and certificate.
<i>content_flags</i>	<p>Integer Read-only. A bitmask indicating the content of this resource.</p> <ul style="list-style-type: none"> ■ * bit 1 Set if the resource contains a private key. ■ * bit 2 Set if the resource contains a certificate.
<i>valid_until</i>	DateTime Read-only. The expiration date of the certificate.
<i>fingerprint</i>	String Read-only. The fingerprint of the certificate.
<i>cn</i>	String Read-only. The subject common name date of the certificate.
<i>is_developer_certificate</i>	Boolean Read-only. <code>True</code> if the certificate can be used for code signing of applications. The default is <code>false</code> .

See Also

[Summary of REST Resources](#)

Comment

Instances of the Comment resource represent a comment by a user. Comments can be associated with Product resources or with specific ProductVersions of a Product.

Attributes

<i>id</i>	Integer The identification number of the Comment resource.
<i>title</i>	String Optional. The title of the comment.
<i>comment</i>	String The body of the comment.
<i>username</i>	String Read-only. The name of the user who submitted the comment.

See Also

[Summary of REST Resources](#)

Device

Instances of the Device resource represent a mobile device that is managed by Mobile Administrator.

Attributes

<i>id</i>	Integer The identification number of the Device resource.
<i>last_seen</i>	DateTime The date and time of the last communication between device and backend.
<i>platform</i>	String The software platform of the device.
<i>platform_version</i>	String The platform version.
<i>device_id</i>	String The device identifier.
<i>device_model_id</i>	Integer The identification number of the device model.

managed **Boolean** Indicates whether the device is managed by the backend. The default is `false`.

See Also

[Summary of REST Resources](#)

IOSProvisioningProfile

Instances of the IOSProvisioningProfile resource represent Apple iOS provisioning profiles, a resource required for signing iOS applications.

Attributes

<i>id</i>	Integer The identification number of the IOSProvisioningProfile resource.
<i>name</i>	String Read-only. The name used to identify the provisioning profile.
<i>expires</i>	DateTime Read-only. The expiration date of the provisioning profile.
<i>bundle_id</i>	String Read-only. The iOS bundle identification number (possibly including wildcard) of the provisioning profile.
<i>uuid</i>	String Read-only. The UUID of this provisioning profile.
<i>certificate</i>	String Optional, read-only. A PEM-encoded representation of the private key and certificate associated with the provisioning profile.
<i>ios_provisioning_profile_base64</i>	String Optional, read-only. A Base64-encoded representation of the provisioning profile file.

See Also

[Summary of REST Resources](#)

Platform

Instances of the Platform resource represent a target platform of the mobile apps and devices managed by Mobile Administrator.

Attributes

<i>id</i>	Integer The identification number of the Platform resource.
<i>name</i>	String Read-only. The name of the platform (for example: iOS).

See Also

[Summary of REST Resources](#)

Product

Instances of the Product resource represent mobile applications that are managed by webMethods Mobile Administrator.

Attributes

<i>contact_email</i>	String Optional. The contact email.
<i>contact_name</i>	String Optional. The contact name.
<i>copyright_notice</i>	String Optional. The copyright notice.
<i>description</i>	String Optional. A detailed description of the application.
<i>hidden_from_appstore</i>	Boolean Indicates whether the Product resource is hidden from the Enterprise App Store. The default is <code>false</code> .
<i>icon</i>	String The relative URL to the icon of the application.
<i>identifier</i>	String The identifier of the application.

<i>info</i>	String Optional. JSON dictionary that can contain various information.
<i>keywords</i>	String List The list of product keywords.
<i>latest_version</i>	String The latest version of the product.
<i>managed_devices_only</i>	Boolean Optional. Indicates whether the application is available only on managed devices. The default is <code>false</code> .
<i>name</i>	String The name of the application.
<i>platforms</i>	String List The list of platform resources.
<i>product_category_id</i>	Integer The identification number of the product category.
<i>public_downloads</i>	Boolean Indicates whether the Product resource is available for public (anonymous) download. The default is <code>false</code> .
<i>screenshots</i>	String List A list that contains relative URLs to the screenshots of the application.
<i>short_description</i>	String A brief description of the application for display on mobile clients.

See Also

[Summary of REST Resources](#)

ProductCategory

Instances of the ProductCategory resource represent categories that can be used to organize mobile applications (Products).

Attributes

<i>id</i>	Integer The identification number of the ProductCategory resource.
<i>bg_color</i>	String Optional. Background color of the category.

<i>custom_order</i>	Integer Optional. Number that indicates the custom ordering. The lowest number is 0.
<i>description</i>	String Optional. A brief description of the category.
<i>name</i>	String The name of the category.
<i>icon</i>	String Optional, read-only. The URL of the associated icon image resource (relative to the request URL).
<i>teaser</i>	String Optional, read-only. The URL of the associated teaser image resource (relative to the request URL).
<i>teaser_height</i>	Integer Optional. The height of an attached teaser image.
<i>teaser_width</i>	Integer Optional. The width of an attached teaser image.

See Also

[Summary of REST Resources](#)

PushDevice

Instances of the PushDevice resource represent a target device for a PushNotification resource.

Attributes

<i>id</i>	Integer The identification number of the PushDevice resource.
<i>product_id</i>	String The ID of the Product resource that this PushDevice is associated with, see " Product " on page 81.
<i>push_platform_type</i>	String The type of the target push platform; one of APNS, GCM or MPNS.

One of the following:

<i>pushTokenHex</i>	String iOS deviceToken in Hex format (when push_platform_type is APNS).
---------------------	--

<i>registrationId</i>	String Android GCM registrationId (when <code>push_platform_type</code> is GCM).
<i>mpns_uri</i>	String Microsoft Push Notification Service URI endpoint (when <code>push_platform_type</code> is MPNS).

See Also

[Summary of REST Resources](#)

ProductStage

Instances of the ProductStage resource represent global product stages that are associated with product versions.

Attributes

<i>id</i>	Integer The identification number of the ProductStage resource.
<i>name</i>	String The name of the product stage.
<i>stable</i>	Boolean Indicates whether the product stage is stable. The default is <code>true</code> .

See Also

[Summary of REST Resources](#)

ProductUser

Instances of the ProductUser resource represent a relationship between Product and User instances. They are used to define user access rights for a mobile application.

Attributes

<i>id</i>	Integer The identification number of the ProductUser resource.
<i>can_view</i>	Boolean Optional. May browse and download the application. The default is <code>true</code> .

<i>can_view_unstable</i>	Boolean Optional. May download versions of the application that are marked as unstable. The default is <code>false</code> .
<i>can_view_stats</i>	Boolean Optional. May view and download the application's usage and download statistics, and customer or user reviews. The default is <code>false</code> .
<i>can_edit_metadata</i>	Boolean Optional. May edit application metadata such as the application's description, icon and screenshots, as well as platform-specific metadata like bundle or package identification numbers and vendor App Store links. The default is <code>false</code> .
<i>can_manage_versions</i>	Boolean Optional. May add and remove versions of the application, upload binaries, edit version release notes, and mark versions as stable or unstable. The default is <code>false</code> .
<i>can_manage_resources</i>	Boolean Optional. May create and update resource manifests used by the application. The default is <code>false</code> .
<i>can_manage_devices</i>	Boolean Optional. May trigger installation and removal of the application on managed devices. The default is <code>false</code> .
<i>can_manage_builds</i>	Boolean Optional. May create and update build configurations, build jobs, source code repositories, and provisioning profiles. The default is <code>false</code> .
<i>can_manage_permissions</i>	Boolean Optional. May add and remove user permissions for the application. The default is <code>false</code> .

See Also

[Summary of REST Resources](#)

ProductVersion

Instances of the ProductVersion resource represent individual versions of a mobile application (Product).

Attributes

<i>id</i>	Integer The identification number of the ProductVersion resource.
<i>name</i>	String The name of the product.
<i>build_number</i>	Integer The build number of the product.
<i>release_notes</i>	String Optional. The release notes of the product.
<i>stable</i>	Boolean Optional, read-only. Indicates whether the product version is stable. The default is <code>true</code> .
<i>ignore_crashlogs</i>	Boolean Optional. Indicates whether crashlogs should be ignored. The default is <code>false</code> .
<i>version_order</i>	Integer Optional. The version order of the product.
<i>tags</i>	String Optional. A comma separated list of tags.

See Also

[Summary of REST Resources](#)

PushDeviceGroup

Instances of the PushDeviceGroup resource represent a group of PushDevice resources. When a PushNotification is sent to a PushDeviceGroup, it is delivered to all PushDevices in this group.

Attributes

<i>id</i>	Integer The identification number of the PushDeviceGroup resource.
<i>product_id</i>	String The ID of the Product resource, see " Product " on page 81 .
<i>name</i>	String The user-defined name of the device group.

device_count **Integer** Read-only. The number of PushDevice resources associated with the device group.

See Also

[Summary of REST Resources](#)

PushNotification

Instances of the PushNotification resource represent a message (notification) that is delivered through one or more mobile devices through the push notification services of the mobile platform vendors (Apple, Google, Microsoft).

Attributes

id **Integer** The identification number of the PushNotification resource.

push_platform_type **String** The type of the target push platform; one of APNS, GCM or MPNS

push_device_group_id **Integer** The ID of the PushDeviceGroup resource associated with this push notification (if the push notification is sent to a group of devices, not a specific device), see "[PushDeviceGroup](#)" on page 86.

payload **Object** The various parameters (message, sound, etc.) of the push notification.

If the push notification is sent to a specific device, one of the following:

pushTokenHex **String** iOS deviceToken in Hex format (when *push_platform_type* is APNS).

registrationId **String** Android GCM registrationId (when *push_platform_type* is GCM).

mpns_uri **String** Microsoft Push Notification Service URI endpoint (when *push_platform_type* is MPNS).

See Also

[Summary of REST Resources](#)

User

Instances of the User resource represent the user accounts of a webMethods Mobile Administrator instance.

Attributes

<i>id</i>	Integer The identification number of the User resource.
<i>username</i>	String The name of the user and the slug.
<i>email</i>	String The email address of the user.
<i>is_local</i>	Boolean Optional. Indicates whether the user is a user in the local database or from LDAP. The default is <code>false</code> .
<i>active</i>	Boolean Optional. Indicates whether the user can log on to the product. The default is <code>true</code> .
<i>can_create_apps</i>	Boolean Optional. May add new applications (the user is granted all application-specific permissions for the newly created application). The default is <code>false</code> .
<i>can_manage_apps</i>	Boolean Optional. May manage applications. This includes all application-specific permissions for all applications. The default is <code>false</code> .
<i>can_manage_policies</i>	Boolean Optional. May create and remove device policies. The default is <code>false</code> .
<i>can_assign_policies</i>	Boolean Optional. May assign existing device policies to devices. The default is <code>false</code> .
<i>can_manage_devices</i>	Boolean Optional. May organize and remove managed devices. The default is <code>false</code> .
<i>can_wipe_devices</i>	Boolean Optional. May remotely wipe managed devices. The default is <code>false</code> .

<i>can_manage_users</i>	Boolean Optional. May manage local users and user groups on this site. The default is <code>false</code> .
<i>can_manage_admins</i>	Boolean Optional. May assign site admin permissions to users (from the list of permissions). The default is <code>false</code> .
<i>can_manage_site</i>	Boolean Optional. May edit site information, such as domain names, certificates, and licenses. The default is <code>false</code> .
<i>can_manage_sites</i>	Boolean Optional. May manage all sites of this instance. The default is <code>false</code> .

See Also[Summary of REST Resources](#)

3 Using Resource Bundles

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Overview

A webMethods Mobile Administrator resource bundle contains a number of files (resources) that are provided to an application dynamically. A resource may be "bundled", that means shipped as part of the application. Non-bundled resources or newer versions of bundled resources can be downloaded by the application at any time.

Shipping a Resource Bundle

After creating and finalizing a manifest, download the `Bundle ZIP` and extract its contents to get the file tree that should be included with the application.

Updating Manifests

To make a new version of a manifest available, duplicate the old manifest and remove or add files as required. By finalizing the manifest, it becomes available to the application either immediately or after the `Valid From` date.

Resource Manifests

The most current version of each resource is referenced by its SHA1 checksum in a resource manifest. A resource manifest describing the shipped version of the resource bundle is also shipped with the application, and updated versions of that manifest are downloaded by an application as they become available to identify updated resources.

An example manifest may look like this:

```
<?xml version="1.0" encoding="UTF-8"?>
<manifest timestamp="2012-09-26T16:03:03+0200" namespace="com.example">
<resource filesize="28" path="bundled1.txt" bundled="true"
mimeType="application/octet-stream"
sha1="4707cb8c4e78321df4caec3bbfdc2416e88e235d"/>
<resource filesize="56" path="bundled2.txt" bundled="true"
mimeType="application/octet-stream"
sha1="62d91b2d24cc06517795531f4bab6b6364aefb0c"/>
<resource filesize="56" path="other.png" bundled="false"
mimeType="application/octet-stream"
sha1="62d91b2d24cc06517795531f4bab6b6364aefb0c"/>
</manifest>
```

Manifests have a SHA1 checksum themselves and are located like other resources (see ["Manifest References" on page 93](#)). To get the SHA1 checksum of a manifest, a manifest reference is used.

Manifest References

Manifest references contain the SHA1 checksum of the manifest file and a timestamp that can be used to sort manifests by creation time.

```
<?xml version="1.0" encoding="UTF-8"?>
<manifestReference timestamp="2012-09-26T16:15:52+0200"
namespace="com.example"
sha1="6845b71d66c916c8cb55cc867449a11f9d08d2b3"/>
```

File System Layout

The path to a manifest reference as identified by its namespace is constructed like this:

```
refs/{namespace}.ref
```

The path to a resource as identified by its SHA1 checksum is constructed like this:

```
objects/{SHA1 part 1}/{SHA1 part 2}.blob
```

The first part of the SHA1 are the first two lowercase characters of the hex representation of the SHA1 checksum, and the second part is the remainder of the checksum. The path for the `resourcebundled1.txt` above would look like this:

```
objects/47/07cb8c4e78321df4caec3bbfdc2416e88e235d.blob
```

API

The file system paths described above map to the API, which may be used to retrieve the most recent manifest reference or resources for an application. For more details, please refer to ["Using REST Requests" on page 9](#).