Pass Kit Web Service Reference

Developer

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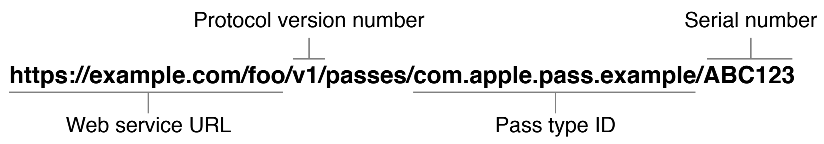
PassKit Web Service Reference

Companion Guide *Pass Kit Programming Guide*

A REST-style web service protocol is used to communicate with your server about changes to passes, and to fetch the latest version of a pass when it has changed. The endpoints always begin with the web service URL, as specified in the pass, followed by the protocol version number. For example, a request for the latest version of the pass of type `com.apple.pass.example` and serial number `ABC123` might look like the following:


Protocol version number
Serial number
https://example.com/foo/v1/passes/com.apple.pass.example/ABC123
Web service URL
Pass type ID

Registering a Device to Receive Push Notifications for a Pass

POST request to
`https://`*webServiceURL* /*version* /`devices`/*deviceLibraryIdentifier* /`registrations`/*passTypeIdentifier* /*serialNumber*

Parameters

webServiceURL
The URL to your web service, as specified in the pass.

version
The protocol version. Currently, v1.

deviceLibraryIdentifier
A unique identifier that is used to identify and authenticate this device in future requests.

passTypeIdentifier
The pass's type, as specified in the pass.

serialNumber
The pass's serial number, as specified in the pass.

Header

The Authorization header is supplied; its value is the word "ApplePass", followed by a space, followed by the pass's authorization token as specified in the pass.

Payload

The POST payload is a JSON dictionary, containing a single key and value:

pushToken
The push token that the server can use to send push notifications to this device.

Response

- If the serial number is already registered for this device, return HTTP status 200.
- If registration succeeds, return HTTP status 201.
- If the request is not authorized, return HTTP status 401.
- Otherwise, return the appropriate standard HTTP status.

Discussion

Any time the pass is updated, your server sends a push notification with an empty JSON dictionary as the payload to the device using the given push notification token. This continues until the device is explicitly unregistered (as described in "Unregistering a Device" (page 6)).

Getting the Serial Numbers for Passes Associated with a Device

GET request to
https://*webServiceURL*/*version*/devices/*deviceLibraryIdentifier*/registrations/*passTypeIdentifier*?passesUpdatedSince=*tag*

Parameters

webServiceURL
The URL to your web service, as specified in the pass.

version
The protocol version. Currently, v1.

deviceLibraryIdentifier
A unique identifier that is used to identify and authenticate the device.

passTypeIdentifier
The pass's type, as specified in the pass.

tag

A tag from a previous request. *(optional)*

If the `passesUpdatedSince` parameter is present, return only the passes that have been updated since the time indicated by `tag`. Otherwise, return all passes.

Response

- If there are matching passes, return HTTP status 200 with a JSON dictionary with the following keys and values:

  lastUpdated (string)

  The current modification tag.

  serialNumbers (array of strings)

  The serial numbers of the matching passes.

- If there are no matching passes, return HTTP status 204.
- Otherwise, return the appropriate standard HTTP status.

Discussion

The modification tag is used to give a name to a point in time. It is typically convenient to use a timestamp, but the server is free to use another approach. The tag is treated as an opaque value by the system.

Getting the Latest Version of a Pass

GET request to `https://`*webServiceURL* / *version* /`passes/`*passTypeIdentifier* / *serialNumber*

Parameters

webServiceURL

The URL to your web service, as specified in the pass.

version

The protocol version. Currently, v1.

passTypeIdentifier

The pass's type, as specified in the pass.

serialNumber

The unique pass identifier, as specified in the pass.

Header

The Authorization header is supplied; its value is the word “ApplePass”, followed by a space, followed by the pass’s authorization token as specified in the pass.

Response

- If request is authorized, return HTTP status 200 with a payload of the pass data.
- If the request is not authorized, return HTTP status 401.
- Otherwise, return the appropriate standard HTTP status.

Discussion

Support standard HTTP caching on this endpoint: check for the `If-Modified-Since` header or entity tags, and return HTTP status code 304 if the pass has not changed.

Unregistering a Device

DELETE request to
`https://`*webServiceURL* `/`*version* `/devices/`*deviceLibraryIdentifier* `/registrations/`*passTypeIdentifier*

Parameters

webServiceURL
The URL to your web service, as specified in the pass.

version
The protocol version. Currently, v1.

deviceLibraryIdentifier
A unique identifier that is used to identify and authenticate the device.

passTypeIdentifier
The pass’s type, as specified in the pass.

Header

The Authorization header is supplied; its value is the word “ApplePass”, followed by a space, followed by the pass’s authorization token as specified in the pass.

Response

- If disassociation succeeds, return HTTP status 200.
- If the request is not authorized, return HTTP status 401.

- Otherwise, return the appropriate standard HTTP status.

Discussion

The server should disassociate the specified device from the pass, and no longer send push notifications to this device when the pass changes.

Logging Errors

POST request to `https://`*webServiceURL*`/`*version*`/log`

Parameters

webServiceURL
: The URL to your web service, as specified in the pass.

version
: The protocol version. Currently, v1.

Payload

The POST payload is a JSON dictionary, containing a single key and value:

logs (string)
: An array of log messages as strings.

Response

Return HTTP status 200.

Discussion

This endpoint is intended to help you debug your web service implementation. Log messages contain a description of the error in a human-readable format.

Document Revision History

This table describes the changes to *Pass Kit Web Service Reference* .

Date	Notes
2012-07-26	New document that describes the web service API used to update passes.