

Reach Script API

The Reach Script API provides the functionality of the Reach Script feature, including executing Reach Scripts on devices, as well as querying and canceling outstanding Run Script requests. You can also use this API to query the Script Library and download scripts from the Script Library.

For more information about using Absolute APIs, see *Working with Absolute APIs* (<https://www.absolute.com/media/2221/abt-api-working-with-absolute.pdf>).

All of the Reach Script API endpoints require the following authentication headers in each request:

Authentication headers

Header	Notes	Description
Host	required	The domain name of the server where the request is sent Example: Host: api.absolute.com
Content-Type	required	The media type of the resource Example: Content-Type: application/json
X-Abs-Date	required	The automatically generated header that indicates the time (in UTC) the request was made encoded in a special header Format: <YYYY><MM><DD>T<HH><MM><SS>Z Example: X-Abs-Date: 20210104T162253Z
Authorization	required	The HTTP authorization header Format: <algorithm> Credential=<token id>/<CredentialScope>, SignedHeaders=<SignedHeaders>, Signature=<signature> Example: Authorization: ABS1-HMAC-SHA-256 Credential=b62182d4-f3b6-410f-8d1b-2f14bb66645f/20210104/cadc/abs1, SignedHeaders=host;content-type;x-abs-date,Signature=a799472df4e9fb2830823dc926103cbfaa8f56b1a7b6e51275534c9104bb3998

See [Working with Absolute APIs](#) for more information.

v2/reachscripts endpoints

The following endpoints are available:

- [POST /v2/reachscripts](#)
- [GET /v2/reachscripts](#)
- [POST /v2/reachscripts/actions](#)
- [POST /v2/reachscripts/cancel](#)
- [GET /v2/reachscripts/{requestUid}](#)
- [POST /v2/reachscripts/{requestUid}/actions](#)
- [POST /v2/reachscripts/{requestUid}/cancel](#)

v2/scriptlibrary/scripts endpoints

The following endpoints are available:

- [GET /v2/scriptlibrary/scripts](#)
- [GET /v2/scriptlibrary/scripts/{scriptId}](#)
- [GET /v2/scriptlibrary/scripts/{scriptId}/params](#)

POST /v2/reachscripts

The POST /v2/reachscripts endpoint executes a Run Script request on a list of devices.

Request

Header parameters

The [Authentication headers](#) are required.

Request body

The request body accepts JSON-formatted data. If any of the parameters in `winScriptOption` and `macScriptOption` are missing, the default values are used. The following table describes the body parameters:

POST /v2/reachscripts request body parameters

Parameter	Notes	Data type	Description
title	optional	string	The user-defined title of the Run Script request Example: "Execute Reach Script for 1 Windows device and 1 Mac device"
scriptId	required	string <uuid>	The system-defined unique identifier for the script Example: "ae07296c-8962-11ea-a376-005056879b56" Use GET /v2/scriptlibrary/scripts/ to get the <code>scriptId</code> .
deviceUids	required	array [string]	The system-defined unique identifiers of the devices included in the request <ul style="list-style-type: none"> • Must not be NULL or empty • Maximum of 10,000 devices Example: "120e0f2b-a878-4549-ad85-bc4aba26f068", "120e0f2b-a878-4549-ad85-bc4aba26f069"

Parameter	Notes	Data type	Description
winScriptOption	optional	object	<p><i>Advanced Configuration Options:</i> The configurations used to execute the PowerShell script on Windows devices</p> <ul style="list-style-type: none"> If the request body contains only the <code>winScriptOption</code> parameter, the script only runs on Windows devices. If the request body contains only the <code>macScriptOption</code> parameter, the script only runs on Mac devices. If the request body contains both the <code>winScriptOption</code> and the <code>macScriptOption</code> parameters, the script runs on both Windows and Mac devices. If the request body contains neither the <code>winScriptOption</code> nor the <code>macScriptOption</code> parameter, the script runs on both Windows and Mac devices using the default values.
maxRunTime	optional	integer	<p><i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device</p> <ul style="list-style-type: none"> default: 120 If <code>maxRunTimeUnit</code> is minute: <ul style="list-style-type: none"> minimum: 1 maximum: 1440 If <code>maxRunTimeUnit</code> is hour: <ul style="list-style-type: none"> minimum: 1 maximum: 24
maxRunTimeUnit	optional	string	<p><i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code></p> <p>Possible values:</p> <ul style="list-style-type: none"> minute (default) hour
displayMode	optional	string	<p><i>Display Mode:</i> The visibility of the Windows PowerShell dialog when the script runs on a device</p> <p>Possible values:</p> <ul style="list-style-type: none"> Hidden (default): The script runs in the background and isn't visible to the user Maximized: The Windows PowerShell dialog shows on the device Minimized: The Windows PowerShell dialog is minimized in the Windows taskbar

Parameter	Notes	Data type	Description
runPrivileges	optional	string	<p><i>Rights:</i> The rights used to run the script Possible values:</p> <ul style="list-style-type: none"> • Administrator (default): The script runs using the rights associated with the local system account • LoggedInUser: The script runs using the rights of the logged in user
runWhen	optional	string	<p><i>Run condition:</i> Whether the user is logged in when the script runs Possible values:</p> <ul style="list-style-type: none"> • UserIsOrIsNotSignedIn (default): The script runs regardless of whether a user is logged in • UserIsSignedIn: The script runs only when a user is logged in • NoUserIsSignedIn: The script runs only when no user is logged in
commandLine	optional	string	<p><i>PowerShell Parameters:</i> Command line parameters used to execute the script</p> <ul style="list-style-type: none"> • Use this parameter for the required and optional script variables • Contains parameter names and values • Syntax for Param1 and Param2 is <code>-Param1 \"value2\" -Param2 \"value2\"</code> • Use GET /v2/scriptlibrary/scripts or GET /v2/scriptlibrary/scripts/{scriptId}/params to get the PowerShell Parameters. <p>Example: <code>\"-Date \"January 31, 2021\" -Address \"Absolute Software\"</code></p>
alwaysRun32bits	optional	Boolean	<p><i>Run 32-bit version:</i> Version of PowerShell used on 64-bit Windows devices</p> <ul style="list-style-type: none"> • true: The script runs using the 32-bit version of PowerShell (x86) on 64-bit Windows devices • false: The script runs using the 64-bit version of PowerShell on 64-bit Windows devices
startupDir	optional	string	<p>The location used by the agent to download and run scripts on the device</p> <ul style="list-style-type: none"> • Backslash (\) is a reserved character in JSON and must be replaced with \\ • default: <code>C:\\ProgramData\\</code> <p>Example: <code>\"C\\:ProgramData\\ReachScripts\\\"</code></p>

Parameter	Notes	Data type	Description
macScriptOption	optional	object	<p><i>Advanced Configuration Options:</i> The configurations used to execute the Bash script on Mac devices</p> <ul style="list-style-type: none"> If the request body contains only the <code>macScriptOption</code> parameter, the script only runs on Mac devices. If the request body contains only the <code>winScriptOption</code> parameter, the script only runs on Windows devices. If the request body contains both the <code>macScriptOption</code> and the <code>winScriptOption</code> parameters, the script runs on both Windows and Mac devices. If the request body contains neither the <code>macScriptOption</code> nor the <code>winScriptOption</code> parameter, the script runs on both Windows and Mac devices using the default values.
maxRunTime	optional	integer	<p><i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device</p> <ul style="list-style-type: none"> default: 120 If <code>maxRunTimeUnit</code> is minute: <ul style="list-style-type: none"> minimum: 1 maximum: 1440 If <code>maxRunTimeUnit</code> is hour: <ul style="list-style-type: none"> minimum: 1 maximum: 24
maxRunTimeUnit	optional	string	<p><i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code></p> <p>Possible values:</p> <ul style="list-style-type: none"> minute (default) hour
displayMode	optional	string	<p><i>Display Mode:</i> The visibility of the script while it runs</p> <p>Hidden: The script runs in the background and isn't visible to the user</p>
runPrivileges	optional	string	<p><i>Rights:</i> The rights used to run the script</p> <p>Possible values:</p> <ul style="list-style-type: none"> Administrator (default): The script runs using the rights associated with the local system account LoggedInUser: The script runs using the rights of the logged in user
runWhen	optional	string	<p><i>Run condition:</i> Whether the user is logged in when the script runs</p> <p>UserIsOrIsNotSignedIn: The script runs regardless of whether a user is logged in</p>

Parameter	Notes	Data type	Description
commandLine	optional	string	<p><i>Bash Parameters:</i> Command line parameters used to run the script</p> <ul style="list-style-type: none"> Use this parameter for the required and optional script variables Contains parameter names and values Syntax for Param1 and Param2 is <code>-Param1 \"value1\" -Param2 \"value2\"</code> Use GET /v2/scriptlibrary/scripts/{scriptId} to download the Bash script. Open the Bash script to get the Bash Parameters from the script contents. <p>Example: <code>-d \"January 31, 2021\" -a \"Absolute Software\"</code></p>
startupDir	optional	string	<p>The location used by the agent to download and run scripts on the device</p> <ul style="list-style-type: none"> default: <code>/temp/</code> <p>Example: <code>/temp/ReachScripts/</code></p>

Example: POST /v2/reachscripts request body

```
{
  "title": "Execute Reach Script for 1 Windows device and 1 Mac device",
  "scriptId": "ae07296c-8962-11ea-a376-005056879b56",
  "deviceUids": [
    "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "120e0f2b-a878-4549-ad85-bc4aba26f069"
  ],
  "winScriptOption": {
    "maxRunTime": 120,
    "maxRunTimeUnit": "minute",
    "displayMode": "Hidden",
    "runPrivileges": "Administrator",
    "runWhen": "UserIsOrIsNotSignedIn",
    "commandLine": "-Date \"January 31, 2021\" -Address \"Absolute Software\"
-Contact \"IT Department\" -Phone \"604-123-4567\"",
    "alwaysRun32bits": false,
    "startupDir": "C:\\Program Data\\"
  },
  "macScriptOption": {
    "maxRunTime": 120,
    "maxRunTimeUnit": "minute",
    "displayMode": "Hidden",
    "runPrivileges": "Administrator",
    "runWhen": "UserIsOrIsNotSignedIn",
    "commandLine": "-d \"January 31, 2021\" -a \"Absolute Software\" -c \"IT
Department\" -p \"604-123-4567\"",
    "startupDir": "/tmp/"
  }
}
```

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: POST /v2/reachscripts response header

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

Response body

This endpoint returns an object containing the details about the new Run Script request. The following table describes the fields returned:

POST /v2/reachscripts response parameters

Parameter	Data type	Description
requestUid	string	The system-defined unique identifier of the Run Script request Example: " bb846a14-693f-4963-942f-44e7f9f80870 "
title	string	The user-defined title of the Run Script request Example: " Execute Reach Script for 1 Windows device and 1 Mac device "
scriptId	string	The system-defined unique identifier for the script Example: " ae07296c-8962-11ea-a376-005056879b56 "
deviceUids	array [string]	The system-defined unique identifier of the devices included in the request Example: " 120e0f2b-a878-4549-ad85-bc4aba26f068 ", " 120e0f2b-a878-4549-ad85-bc4aba26f069 "
createdUtc	string <date-time>	The time and date, in ISO 8601 format, that the Run Script request was created ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: " 2020-12-04T03:47:16.861Z "
winScriptOption	object	<i>Advanced Configuration Options:</i> The configurations used to execute the PowerShell script on Windows devices
maxRunTime	integer	<i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device <ul style="list-style-type: none"> • default: 120 • If <code>maxRunTimeUnit</code> is minute: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 1440 • If <code>maxRunTimeUnit</code> is hour: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 24

Parameter	Data type	Description
maxRunTimeUnit	string	<i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code> Possible values: <ul style="list-style-type: none"> minute (default) hour
displayMode	string	<i>Display Mode:</i> The visibility of the Windows PowerShell dialog when the script runs on a device Possible values: <ul style="list-style-type: none"> Hidden (default): The script runs in the background and isn't visible to the user Maximized: The Windows PowerShell dialog shows on the device Minimized: The Windows PowerShell dialog is minimized in the Windows taskbar
runPrivileges	string	<i>Rights:</i> The rights used to run the script Possible values: <ul style="list-style-type: none"> Administrator (default): The script runs using the rights associated with the local system account LoggedInUser: The script runs using the rights of the logged in user
runWhen	string	<i>Run condition:</i> Whether the user is logged in when the script runs Possible values: <ul style="list-style-type: none"> UserIsOrIsNotSignedIn (default): The script runs regardless of whether a user is logged in UserIsSignedIn: The script runs only when a user is logged in NoUserIsSignedIn: The script runs only when no user is logged in
commandLine	string	<i>PowerShell Parameters:</i> Command line parameters used to execute the script <ul style="list-style-type: none"> Contains parameter names and values Syntax for Param1 and Param2 is <code>-Param1 "value1" -Param2 "value2"</code> Example: <code>"-Date "January 31, 2021" -Address "Absolute Software"</code>
alwaysRun32bits	Boolean	<i>Run 32-bit version:</i> Version of PowerShell used on 64-bit Windows devices <ul style="list-style-type: none"> true: The script runs using the 32-bit version of PowerShell (x86) on 64-bit Windows devices false: The script runs using the 64-bit version of PowerShell on 64-bit Windows devices
startupDir	string	The location used by the agent to download and run scripts on the device <ul style="list-style-type: none"> default: <code>C:\ProgramData\</code> Example: <code>"C:\ProgramData\ReachScripts\"</code>
macScriptOption	object	<i>Advanced Configuration Options:</i> The configurations used to execute the Bash script on Mac devices

Parameter	Data type	Description
maxRunTime	integer	<p><i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device</p> <ul style="list-style-type: none"> • default: 120 • If <code>maxRunTimeUnit</code> is <code>minute</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 1440 • If <code>maxRunTimeUnit</code> is <code>hour</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 24
maxRunTimeUnit	string	<p><i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code></p> <p>Possible values:</p> <ul style="list-style-type: none"> • minute (default) • hour
displayMode	string	<p><i>Display Mode:</i> The visibility of the script while it runs</p> <p>Hidden: The script runs in the background and isn't visible to the user</p>
runPrivileges	string	<p><i>Rights:</i> The rights used to run the script</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Administrator (default): The script runs using the rights associated with the local system account • LoggedInUser: The script runs using the rights of the logged in user
runWhen	string	<p><i>Run condition:</i> Whether the user is logged in when the script runs</p> <p>UserIsOrIsNotSignedIn: The script runs regardless of whether a user is logged in</p>
commandLine	string	<p><i>Bash Parameters:</i> Command line parameters used to run the script</p> <ul style="list-style-type: none"> • Contains parameter names and values • Syntax for Param1 and Param2 is <code>-Param1 "value1 " -Param2 "value2 "</code> <p>Example: <code>"-d "January 31, 2021 " -a "Absolute Software "</code></p>
alwaysRun32bits	Boolean	Always false for Mac devices
startupDir	string	<p>The location used by the agent to download and run scripts on the device</p> <ul style="list-style-type: none"> • default: /temp/ <p>Example: <code>"/temp/ReachScripts/</code></p>

Example: POST /v2/reachscripts response

```
{
  "requestUid": "bb846a14-693f-4963-942f-44e7f9f80870",
  "title": "Execute Reach Script for 1 Windows device and 1 Mac device",
  "deviceUids": [
    "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "120e0f2b-a878-4549-ad85-bc4aba26f069"
  ]
}
```

```

    ],
    "createdUtc": "2020-12-04T03:47:16.861Z",
    "scriptId": "ae07296c-8962-11ea-a376-005056879b56",
    "winScriptOption": {
      "maxRunTime": 120,
      "maxRunTimeUnit": "minute",
      "displayMode": "Hidden",
      "runPrivileges": "Administrator",
      "runWhen": "UserIsOrIsNotSignedIn",
      "commandLine": "-Date \"January 31, 2021\" -Address \"Absolute Software\"
-Contact \"IT Department\" -Phone \"604-123-4567\"",
      "alwaysRun32bits": false,
      "startupDir": "C:\\Program Data\\"
    },
    "macScriptOption": {
      "maxRunTime": 120,
      "maxRunTimeUnit": "minute",
      "displayMode": "Hidden",
      "runPrivileges": "Administrator",
      "runWhen": "UserIsOrIsNotSignedIn",
      "commandLine": "-d \"January 31, 2021\" -a \"Absolute Software\" -c \"IT
Department\" -p \"604-123-4567\"",
      "alwaysRun32bits": false,
      "startupDir": "/tmp/"
    }
  }
}

```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

POST /v2/reachscripts errors

Status code	Reason	Action
400 Bad Request	The required <code>scriptId</code> parameter is invalid, NULL, empty, or missing.	Verify the request body contains a valid <code>scriptId</code> .
	The required <code>deviceUids</code> parameter is invalid, NULL, empty, or missing.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
	The <code>deviceUids</code> parameter exceeds the maximum number of device IDs.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
	The <code>maxRunTimeUnit</code> is minute and the <code>maxRunTime</code> isn't between 1 and 1440.	Check the <code>maxRunTime</code> in the request and make sure it falls into the accepted minimum and maximum values.
	The <code>maxRunTimeUnit</code> is hour and the <code>maxRunTime</code> isn't between 1 and 24.	Check the <code>maxRunTime</code> in the request and make sure it falls into the accepted minimum and maximum values.
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.

Status code	Reason	Action
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

GET /v2/reachscripts

The GET /v2/reachscripts endpoint gets a list of Run Script requests. It supports filtering by request status and by period of time. This resource returns a maximum of 100 items per call. Use the `skip` parameter to get additional Run Script requests.

Request

Header parameters

The [Authentication headers](#) are required.

Query parameters

The request accepts some query string parameters. The following table describes these parameters:

GET /v2/reachscripts query parameters

Parameter	Notes	Data type	Description
createdFromDate	optional	string <date-time>	The oldest created timestamp, in ISO 8601 format, from which Run Script requests are provided ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: GET /v2/reachscripts? createdFromDate=2020-12-01T00%3A00%3A00.000Z
createdToDate	optional	string <date-time>	The latest, most recent created timestamp, in ISO 8601 format, from which Run Script requests are provided ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: GET /v2/reachscripts? createdToDate=2021-01-01T00%3A00%3A00.000Z
status	optional	string <enum>	The status of the Run Script request <ul style="list-style-type: none"> If this parameter is missing, the resource returns all Run Script requests, regardless of their status. Possible values: <ul style="list-style-type: none"> Init: All devices in the Run Script request have a status of Pending InProgress: At least one device in the Run Script request has a status of Processing Completed: All of the devices in the Run Script request have a status of Succeeded, Failed, or Canceled Failed: The Run Script request failed Case insensitive Can be a comma-delimited list Example: GET /v2/reachscripts? status=Init%2C%20InProgress

Parameter	Notes	Data type	Description
skip	optional	integer <int64>	The number of Run Script requests to skip Default value: 0 Example: GET /v2/reachscripts?skip=100

Example: GET /v2/reachscripts request

```
GET https://api.absolute.com/v2/reachscripts?createdFromDate=2020-12-01T00%3A00%3A00.000Z&createdToDate=2021-01-01T00%3A00%3A00.000Z&skip=100&status=Init%2C%20InProgress
Content-Type: application/json
Authorization: ABS1-HMAC-SHA-256 Credential=8b2d6fe7-0819-49b7-b29b-f565189d5e95/20190627/cadc/abs1, SignedHeaders=host;content-type;x-abs-date, Signature=f84db5f4b00d1c8beca909fdaca6356546ea6fce8b82874132df13c920d4a2c5
X-Abs-Date: 20210102T09000Z
Host: api.absolute.com
```

Request body

There is no request body.

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: GET /v2/reachscripts response header

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
```

Response body

The following table describes the fields returned for each Run Script request:

GET /v2/reachscripts response parameters

Parameter	Data type	Description
requestUid	string	The system-defined unique identifier of the Run Script request Example: " bb846a14-693f-4963-942f-44e7f9f80870 "
actionId	string	The system-defined action identifier for the Run Script request Example: " RS-1 "
title	string	The user-defined title of the Run Script request Example: " Execute Reach Script for 1 Windows device and 1 Mac device "
scriptUid	string <uuid>	The system-defined unique identifier for the script Example: " ae07296c-8962-11ea-a376-005056879b56 "
scriptName	string	The name of the script Example: " Show a Return Device Notification "

Parameter	Data type	Description
status	string	The status of the Run Script request Possible values: <ul style="list-style-type: none"> • Init: All devices in the Run Script request have a status of Pending • InProgress: At least one device in the Run Script request has a status of Processing • Completed: All of the devices in the Run Script request have a status of Succeeded, Failed, or Canceled • Failed: The Run Script request failed Example: " InProgress "
updatedUtc	string <date-time>	The date and time, in ISO 8601 format, that the Run Script request was last updated ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: " 2020-12-04T11:03:15.370Z "
totalDevices	integer	The number of devices included in the Run Script request Example: 2
pending	integer	The number of devices in the Run Script request that have a status of Pending Example: 1
processing	integer	The number of devices in the Run Script request that have a status of Processing Example: 0
completed	integer	The number of devices in the Run Script request that have a status of Succeeded Example: 1
canceled	integer	The number of devices in the Run Script request that have a status of Canceled Example: 0
failed	integer	The number of devices in the Run Script request that have a status of Failed Example: 0
createdUtc	string <date-time>	The time and date, in ISO 8601 format, that the Run Script request was created ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: " 2020-12-04T03:47:16.861Z "
winScriptOption	object	<i>Advanced Configuration Options:</i> The configurations used to execute the PowerShell script on Windows devices

Parameter	Data type	Description
maxRunTime	integer	<p><i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device</p> <ul style="list-style-type: none"> • default: 120 • If <code>maxRunTimeUnit</code> is <code>minute</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 1440 • If <code>maxRunTimeUnit</code> is <code>hour</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 24
maxRunTimeUnit	string	<p><i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code></p> <p>Possible values:</p> <ul style="list-style-type: none"> • minute (default) • hour
displayMode	string	<p><i>Display Mode:</i> The visibility of the Windows PowerShell dialog when the script runs on a device</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Hidden (default): The script runs in the background and isn't visible to the user • Maximized: The Windows PowerShell dialog shows on the device • Minimized: The Windows PowerShell dialog is minimized in the Windows taskbar
runPrivileges	string	<p><i>Rights:</i> The rights used to run the script</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Administrator (default): The script runs using the rights associated with the local system account • LoggedInUser: The script runs using the rights of the logged in user
runWhen	string	<p><i>Run condition:</i> Whether the user is logged in when the script runs</p> <p>Possible values:</p> <ul style="list-style-type: none"> • UserIsOrIsNotSignedIn (default): The script runs regardless of whether a user is logged in • UserIsSignedIn: The script runs only when a user is logged in • NoUserIsSignedIn: The script runs only when no user is logged in
commandLine	string	<p><i>PowerShell Parameters:</i> Command line parameters used to execute the script</p> <ul style="list-style-type: none"> • Contains parameter names and values • Syntax for Param1 and Param2 is <code>-Param1 "value1" -Param2 "value2"</code> <p>Example: <code>"-Date \"January 31, 2021\" -Address \"Absolute Software\""</code></p>

Parameter	Data type	Description
alwaysRun32bits	Boolean	<p><i>Run 32-bit version:</i> Version of PowerShell used on 64-bit Windows devices</p> <ul style="list-style-type: none"> true: The script runs using the 32-bit version of PowerShell (x86) on 64-bit Windows devices false: The script runs using the 64-bit version of PowerShell on 64-bit Windows devices
startupDir	string	<p>The location used by the agent to download and run scripts on the device</p> <ul style="list-style-type: none"> default: C:\\ProgramData\\ <p>Example: "C:\\ProgramData\\ReachScripts\\"</p>
macScriptOption	object	<p><i>Advanced Configuration Options:</i> The configurations used to execute the Bash script on Mac devices</p>
maxRunTime	integer	<p><i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device</p> <ul style="list-style-type: none"> default: 120 If <code>maxRunTimeUnit</code> is <code>minute</code>: <ul style="list-style-type: none"> minimum: 1 maximum: 1440 If <code>maxRunTimeUnit</code> is <code>hour</code>: <ul style="list-style-type: none"> minimum: 1 maximum: 24
maxRunTimeUnit	string	<p><i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code></p> <p>Possible values:</p> <ul style="list-style-type: none"> minute (default) hour
displayMode	string	<p><i>Display Mode:</i> The visibility of the script while it runs</p> <p>Hidden: The script runs in the background and isn't visible to the user</p>
runPrivileges	string	<p><i>Rights:</i> The rights used to run the script</p> <p>Possible values:</p> <ul style="list-style-type: none"> Administrator (default): The script runs using the rights associated with the local system account LoggedInUser: The script runs using the rights of the logged in user
runWhen	string	<p><i>Run condition:</i> Whether the user is logged in when the script runs</p> <p>UserIsOrIsNotSignedIn: The script runs regardless of whether a user is logged in</p>

Parameter	Data type	Description
commandLine	string	<p><i>Bash Parameters:</i> Command line parameters used to run the script</p> <ul style="list-style-type: none"> Contains parameter names and values Syntax for Param1 and Param2 is <code>-Param1 \"value1\" -Param2 \"value2\"</code> <p>Example: <code>-d \"January 31, 2021\" -a \"Absolute Software\"</code></p>
alwaysRun32bits	Boolean	Always false for Mac devices
startupDir	string	<p>The location used by the agent to download and run scripts on the device</p> <ul style="list-style-type: none"> default: <code>/temp/</code> <p>Example: <code>/temp/ReachScripts/</code></p>

Example: GET /v2/reachscripts response

```
[
  {
    "requestUid": "bb846a14-693f-4963-942f-44e7f9f80870",
    "actionId": "RS-1",
    "title": "Execute Reach Script for 1 Windows device and 1 Mac device",
    "scriptUid": "ae07296c-8962-11ea-a376-005056879b56",
    "scriptName": "Show a Return Device Notification",
    "status": "InProgress",
    "updatedUtc": "2020-12-04T11:03:15.370Z",
    "totalDevices": 2,
    "pending": 1,
    "processing": 0,
    "completed": 1,
    "canceled": 0,
    "failed": 0,
    "createdUtc": "2020-12-04T03:47:16.861Z",
    "winScriptOption": {
      "maxRunTime": 120,
      "maxRunTimeUnit": "minute",
      "displayMode": "Hidden",
      "runPrivileges": "Administrator",
      "runWhen": "UserIsOrIsNotSignedIn",
      "commandLine": "-Date \"January 31, 2021\" -Address \"Absolute
Software\" -Contact \"IT Department\" -Phone \"604-123-4567\"",
      "alwaysRun32bits": false,
      "startupDir": "C:\\Program Data\\"
    },
    "macScriptOption": {
      "maxRunTime": 120,
      "maxRunTimeUnit": "minute",
      "displayMode": "Hidden",
      "runPrivileges": "Administrator",
      "runWhen": "UserIsOrIsNotSignedIn",
      "commandLine": "-d \"January 31, 2021\" -a \"Absolute Software\" -c
\"IT Department\" -p \"604-123-4567\"",
      "alwaysRun32bits": false,
      "startupDir": "/tmp/"
    }
  }
]
```



```
}
]
```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint:

GET /v2/reachscripts errors

Status code	Reason	Action
400 Bad Request	The <code>status</code> parameter doesn't use a predefined status, is NULL, or is empty.	Do one of the following: <ul style="list-style-type: none"> Verify the <code>status</code> parameter uses one or more of the following values: <ul style="list-style-type: none"> Init InProgress Completed Failed Remove the <code>status</code> parameter.
	The <code>createdFromDate</code> parameter is invalid, NULL, or empty.	Do one of the following: <ul style="list-style-type: none"> Verify the <code>createdFromDate</code> parameter uses a date-time in ISO 8601 format. ISO 8601 format: <code>YYYY-MM-DDThh:mm:ss.SSSZ</code> Remove the <code>createdFromDate</code> parameter
	The <code>createdToDate</code> parameters is invalid, NULL, or empty.	Do one of the following: <ul style="list-style-type: none"> Verify the <code>createdToDate</code> parameter uses a date-time in ISO 8601 format ISO 8601 format: <code>YYYY-MM-DDThh:mm:ss.SSSZ</code>. Remove the <code>createdFromDate</code> parameter.
	The <code>createdFromDate</code> is later than the <code>createdToDate</code> .	Verify that <code>createdFromDate</code> contains a date-time that is earlier than <code>createdToDate</code> .
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

POST /v2/reachscripts/actions

The POST /v2/reachscripts/actions endpoint gets a list of Run Script actions for a list of devices. It supports filtering by action status and by period of time. This resource returns a maximum of 100 items per call. Use the `skip` parameter to get additional actions.

Request

Header parameters

The [Authentication headers](#) are required.

Query parameters

The request accepts some query string parameters. The following table describes these parameters:

POST /v2/reachscripts/actions query parameters

Parameter	Notes	Data type	Description
status	optional	string <enum>	Filter requests by action status <ul style="list-style-type: none"> If this parameter is missing, the resource returns all actions, regardless of their status. Possible values: <ul style="list-style-type: none"> Failed: Either the system or the device was unable to execute the Run Script request Pending: The Run Script request hasn't been downloaded to the device Canceled: The Run Script request has been canceled for the device Processing: The Run Script request is currently being performed on the device but the action isn't complete yet Succeeded: The Run Script request has run on the device and the action was completed successfully Can be a comma-delimited list Example: POST /v2/reachscripts/actions? status=Pending%2C%20Succeeded
createdFromDate	optional	string<date-time>	The oldest created timestamp, in ISO 8601 format, from which Run Script requests are provided ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: POST /v2/reachscripts/actions? createdFromDate=2020-12-01T00%3A00%3A00.000Z
createdToDate	optional	string <date-time>	The latest, most recent created timestamp, in ISO 8601 format, from which Run Script requests are provided ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: POST /v2/reachscripts/actions? createdToDate=2021-01-01T00%3A00%3A00.000Z
skip	optional	integer <int64>	The number of actions to skip Example: POST /v2/reachscripts/actions? skip=100

Example: POST /v2/reachscripts/actions request header

```
POST https://api.absolute.com/v2/reachscripts/actions?createdFromDate=2020-12-01T00%3A00%3A00.000Z&createdToDate=2021-01-01T00%3A00%3A00.000Z&skip=100&status=Pending%2C%20Succeeded
```

```
Content-Type: application/json
Authorization: ABS1-HMAC-SHA-256 Credential=8b2d6fe7-0819-49b7-b29b-f565189d5e95/20190627/cadc/abs1, SignedHeaders=host;content-type;x-abs-date, Signature=f84db5f4b00d1c8beca909fdaca6356546ea6fce8b82874132df13c920d4a2c5
X-Abs-Date: 20210102T09000Z
Host: api.absolute.com
```

Request body

The request body accepts JSON-formatted data. The following table describes the key defined in the request body.

POST /v2/reachscripts/actions request body parameter

Parameter	Notes	Data type	Description
deviceUids	required	array [string]	<p>The system-defined unique identifiers of the devices included in the request</p> <ul style="list-style-type: none"> Must not be NULL or empty Maximum of 10,000 devices <p>Example: "120e0f2b-a878-4549-ad85-bc4aba26f068", "120e0f2b-a878-4549-ad85-bc4aba26f069"</p>

Example: POST /v2/reachscripts/actions request body

```
{
  "deviceUids": [
    "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "120e0f2b-a878-4549-ad85-bc4aba26f069"
  ]
}
```

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: POST v2/reachscripts/actions response header

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

Response body

This resource returns an array of objects, with each object representing a single action for Run Script request.

The following table describes the fields returned for each Run Script request:

POST /v2/reachscripts/actions response parameters

Parameter	Data type	Description
actionUid	string <uuid>	<p>The system-defined unique identifier for each action that is part of a Run Script request</p> <p>Example: "f029e73e-da3a-4eeb-83cb-b025b9ef0a75"</p>

Parameter	Data type	Description
requestUid	string <uuid>	The system-defined unique identifier of the Run Script request Example: " bb846a14-693f-4963-942f-44e7f9f80870 "
deviceUid	string <uuid>	The system-defined unique identifier of the device Example: " 120e0f2b-a878-4549-ad85-bc4aba26f068 "
deviceName	string	The name assigned to the device Example: " Bob's Laptop "
esn	string	The unique Electronic Serial Number (ESN) assigned to the Absolute agent that is installed on a device Example: " 1L0XXXXB2JAA3KSB0006 "
status	string <enum>	The status of the Run Script request on the specified device Possible values: <ul style="list-style-type: none"> • Failed: Either the system or the device was unable to execute the Run Script request • Pending: The Run Script request hasn't been downloaded to the device • Canceled: The Run Script request has been canceled for the device • Processing: The Run Script request is currently being performed on the device but the action isn't complete yet • Succeeded: The Run Script request has run on the device and the action was completed successfully
updatedUtc	string <date-time>	The date and time, in ISO 8601 format, that the Run Script request was last updated ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: " 2020-12-04T11:03:15.370Z "
createdUtc	string <date-time>	The time and date, in ISO 8601 format, that the Run Script request was created ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: " 2020-12-04T03:47:16.861Z "

Example: POST /v2/reachscripts/actions response

The following is an example of the first record in the response of a successful POST /v2/reachscripts/actions request.

```
[
  {
    "actionUid": "f029e73e-da3a-4eeb-83cb-b025b9ef0a75",
    "requestUid": "bb846a14-693f-4963-942f-44e7f9f80870",
    "deviceUid": "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "deviceName": "Bob's Laptop",
    "esn": "1L0XXXXB2JAA3KSB0006",
    "status": "Pending",
    "updatedUtc": "2020-12-04T11:03:15.370Z",
    "createdUtc": "2020-12-04T03:47:16.861Z"
  },
  {
    "actionUid": "f029e73e-da3a-4eeb-83cb-b025b9ef0b86",
    "requestUid": "bb846a14-693f-4963-942f-44e7f9f80870",
    "deviceUid": "120e0f2b-a878-4549-ad85-bc4aba26f069",
    "deviceName": "Bob's Desktop",
```

```

    "esn": "1L0XXXXB2JAA3KSC0008",
    "status": "Succeeded",
    "updatedUtc": "2020-12-04T11:03:15.370Z",
    "createdUtc": "2020-12-04T03:47:16.861Z"
  }
]

```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

POST /v2/reachscripts/actions errors

Status code	Reason	Action
400 Bad Request	The required <code>deviceUids</code> parameter is NULL, empty, or missing.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
	The <code>deviceUids</code> parameter exceeds the maximum number of device IDs.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
	The <code>status</code> parameter doesn't use a predefined status, is NULL, or is empty.	Do one of the following: <ul style="list-style-type: none"> Verify the <code>status</code> parameter uses one or more of the following values: <ul style="list-style-type: none"> Failed Pending Canceled Processing Succeeded Remove the <code>status</code> parameter.
	The <code>createdFromDate</code> parameter is invalid, NULL, or empty.	Do one of the following: <ul style="list-style-type: none"> Verify the <code>createdFromDate</code> parameter uses a date-time in ISO 8601 format ISO 8601 format: <code>YYYY-MM-DDThh:mm:ss.SSSZ</code> Remove the <code>createdFromDate</code> parameter.
	The <code>createdToDate</code> parameters is invalid, NULL, or empty.	Do one of the following: <ul style="list-style-type: none"> Verify the <code>createdToDate</code> parameter uses a date-time in ISO 8601 format ISO 8601 format: <code>YYYY-MM-DDThh:mm:ss.SSSZ</code> Remove the <code>createdFromDate</code> parameter.
	The <code>createdFromDate</code> is later than the <code>createdToDate</code> .	Verify that <code>createdFromDate</code> contains a date-time that is earlier than <code>createdToDate</code> .
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.

Status code	Reason	Action
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

POST /v2/reachscripts/cancel

The POST /v2/reachscripts/cancel endpoint cancels all Pending Run Script requests on a list of devices.

It is possible that a device has a status of Pending when the cancel request is sent, but the status changes before the cancel request is sent to the device. In this case, the cancel Run Script request fails for that device.

Request

Header parameters

The [Authentication headers](#) are required.

Request body

The request body accepts JSON-formatted data. The following table describes the keys defined in the request body.

POST /v2/reachscripts/cancel request body parameter

Parameter	Notes	Data type	Description
deviceUids	required	array [string]	<p>The system-defined unique identifiers of the devices included in the request</p> <ul style="list-style-type: none"> Must not be NULL or empty Maximum of 10,000 devices <p>Example: "120e0f2b-a878-4549-ad85-bc4aba26f068", "120e0f2b-a878-4549-ad85-bc4aba26f069"</p>

Example: POST /v2/reachscripts/cancel request body

```
{
  "deviceUids": [
    "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "120e0f2b-a878-4549-ad85-bc4aba26f069"
  ]
}
```

Response

A successful request returns an HTTP status code of 204 (No Content). There is no response body.

A request is considered successful if the request is sent successfully. A script can be sent successfully without canceling any Pending Run Script requests.

Example: *POST /v2/reachscripts/cancel response header*

```
HTTP/1.1 204 No Content
Content-Type: application/json;charset=UTF-8
```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

POST /v2/reachscripts/cancel errors

Status code	Reason	Action
400 Bad Request	The required <code>deviceUids</code> parameter is NULL, empty, or missing.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
	The <code>deviceUids</code> parameter exceeds the maximum number of device IDs.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

GET /v2/reachscripts/{requestUid}

The GET /v2/reachscripts/{requestUid} endpoint returns detailed information about a specific Run Script request that has been created in the system.

To get information about the request you created, use the `requestUid` from the [POST /v2/reachscripts](#) response.

Request

Path parameters

Use the following path parameter:

GET /v2/reachscripts/{requestUid} path parameter

Parameter	Notes	Data type	Description
<code>requestUid</code>	required	string <uuid>	The system-defined unique identifier of the Run Script request Example: "bb846a14-693f-4963-942f-44e7f9f80870"

Header parameters

The [Authentication headers](#) are required.

Request body

There is no request body.

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: GET /v2/reachscripts/{requestUid} response header

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

Response body

This endpoint returns an object containing the details about a specific Run Script request. The following table describes the fields returned for each Run Script request:

GET /v2/reachscripts{requestUid} response parameters

Parameter	Data type	Description
requestUid	string	The system-defined unique identifier of the Run Script request Example: " bb846a14-693f-4963-942f-44e7f9f80870 "
actionId	string	The system-defined action identifier for the Run Script request Example: " RS-1 "
title	string	The user-defined title of the Run Script request Example: " Execute Reach Script for 1 Windows device and 1 Mac device "
scriptId	string <uuid>	The system-defined unique identifier for the script Example: " ae07296c-8962-11ea-a376-005056879b56 "
scriptName	string	The name of the script Example: " Show a Return Device Notification "
status	string <enum>	The status of the Run Script request Possible values: <ul style="list-style-type: none"> Init: All devices in the Run Script request have a status of Pending InProgress: At least one device in the Run Script request has a status of Processing Completed: All of the devices in the Run Script request have a status of Succeeded, Failed, or Canceled Failed: The Run Script request failed Example: " InProgress "

Parameter	Data type	Description
updatedUtc	string <date-time>	The date and time, in ISO 8601 format, that the Run Script request was last updated ISO 8601 format: <i>YYYY-MM-DDThh:mm:ss.SSSZ</i> Example: " 2020-12-04T11:03:15.370Z "
totalDevices	integer	The number of devices included in the Run Script request Example: 2
pending	integer	The number of devices in the Run Script request that have a status of Pending Example: 1
processing	integer	The number of devices in the Run Script request that have a status of Processing Example: 0
completed	integer	The number of devices in the Run Script request that have a status of Succeeded Example: 1
canceled	integer	The number of devices in the Run Script request that have a status of Canceled Example: 0
failed	integer	The number of devices in the Run Script request that have a status of Failed Example: 0
createdUtc	string <date-time>	The time and date, in ISO 8601 format, that the Run Script request was created ISO 8601 format: <i>YYYY-MM-DDThh:mm:ss.SSSZ</i> Example: " 2020-12-04T03:47:16.861Z "
winScriptOption	object	<i>Advanced Configuration Options:</i> The configurations used to execute the PowerShell script on Windows devices
maxRunTime	integer	<i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device <ul style="list-style-type: none"> • default: 120 • If <code>maxRunTimeUnit</code> is <code>minute</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 1440 • If <code>maxRunTimeUnit</code> is <code>hour</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 24
maxRunTimeUnit	string	<i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code> Possible values: <ul style="list-style-type: none"> • minute (default) • hour

Parameter	Data type	Description
displayMode	string	<p><i>Display Mode:</i> The visibility of the Windows PowerShell dialog when the script runs on a device Possible values:</p> <ul style="list-style-type: none"> • Hidden (default): The script runs in the background and isn't visible to the user • Maximized: The Windows PowerShell dialog shows on the device • Minimized: The Windows PowerShell dialog is minimized in the Windows taskbar
runPrivileges	string	<p><i>Rights:</i> The rights used to run the script Possible values:</p> <ul style="list-style-type: none"> • Administrator (default): The script runs using the rights associated with the local system account • LoggedInUser: The script runs using the rights of the logged in user
runWhen	string	<p><i>Run condition:</i> Whether the user is logged in when the script runs Possible values:</p> <ul style="list-style-type: none"> • UserIsOrIsNotSingedIn (default): The script runs regardless of whether a user is logged in • UserIsSignedIn: The script runs only when a user is logged in • NoUserIsSignedIn: The script runs only when no user is logged in
commandLine	string	<p><i>PowerShell Parameters:</i> Command line parameters used to execute the script</p> <ul style="list-style-type: none"> • Contains parameter names and values • Syntax for Param1 and Param2 is <code>-Param1 "value1" -Param2 "value2"</code> <p>Example: <code>"-Date "January 31, 2021" -Address "Absolute Software"</code></p>
alwaysRun32bits	Boolean	<p><i>Run 32-bit version:</i> Version of PowerShell used on 64-bit Windows devices</p> <ul style="list-style-type: none"> • true: The script runs using the 32-bit version of PowerShell (x86) on 64-bit Windows devices • false: The script runs using the 64-bit version of PowerShell on 64-bit Windows devices
startupDir	string	<p>The location used by the agent to download and run scripts on the device</p> <ul style="list-style-type: none"> • default: <code>C:\\ProgramData\\</code> <p>Example: <code>"C:\\ProgramData\\ReachScripts\\"</code></p>
macScriptOption	object	<p><i>Advanced Configuration Options:</i> The configurations used to execute the Bash script on Mac devices</p>

Parameter	Data type	Description
maxRunTime	integer	<p><i>Maximum Run Time:</i> The maximum length of time a script is allowed to run on a device</p> <ul style="list-style-type: none"> • default: 120 • If <code>maxRunTimeUnit</code> is <code>minute</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 1440 • If <code>maxRunTimeUnit</code> is <code>hour</code>: <ul style="list-style-type: none"> ◦ minimum: 1 ◦ maximum: 24
maxRunTimeUnit	string	<p><i>Max Run Time:</i> The unit of time used for <code>maxRunTime</code></p> <p>Possible values:</p> <ul style="list-style-type: none"> • minute (default) • hour
displayMode	string	<p><i>Display Mode:</i> The visibility of the script while it runs</p> <p>Hidden: The script runs in the background and isn't visible to the user</p>
runPrivileges	string	<p><i>Rights:</i> The rights used to run the script</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Administrator (default): The script runs using the rights associated with the local system account • LoggedInUser: The script runs using the rights of the logged in user
runWhen	string	<p><i>Run condition:</i> Whether the user is logged in when the script runs</p> <p>UserIsOrIsNotSignedIn: The script runs regardless of whether a user is logged in</p>
commandLine	string	<p><i>Bash Parameters:</i> Command line parameters used to run the script</p> <ul style="list-style-type: none"> • Contains parameter names and values • Syntax for Param1 and Param2 is <code>-Param1 "value1 " -Param2 "value2 "</code> <p>Example: <code>"-d "January 31, 2021 " -a "Absolute Software "</code></p>
alwaysRun32bits	Boolean	Always false for Mac devices
startupDir	string	<p>The location used by the agent to download and run scripts on the device</p> <ul style="list-style-type: none"> • default: /temp/ <p>Example: <code>"/temp/ReachScripts/</code></p>

Example: GET /v2/reachscripts/{requestUid} response body

```
{
  "requestUid": "bb846a14-693f-4963-942f-44e7f9f80870",
  "actionUid": "RS-1",
  "title": "Execute Reach Script for 1 Windows device and 1 Mac device",
  "scriptUid": "ae07296c-8962-11ea-a376-005056879b56",
  "scriptName": "Show a Return Device Notification",
```

```

    "status": "InProgress",
    "updatedUtc": "2020-12-04T11:03:15.370Z",
    "totalDevices": 2,
    "pending": 1,
    "processing": 0,
    "completed": 1,
    "canceled": 0,
    "failed": 0,
    "createdUtc": "2020-12-04T03:47:16.861Z",
    "winScriptOption": {
      "maxRunTime": 120,
      "maxRunTimeUnit": "minute",
      "displayMode": "Hidden",
      "runPrivileges": "Administrator",
      "runWhen": "UserIsOrIsNotSignedIn",
      "commandLine": "-Date \"January 31, 2021\" -Address \"Absolute
Software\" -Contact \"IT Department\" -Phone \"604-123-4567\",
      "alwaysRun32bits": false,
      "startupDir": "C:\\Program Data\\"
    },
    "macScriptOption": {
      "maxRunTime": 120,
      "maxRunTimeUnit": "minute",
      "displayMode": "Hidden",
      "runPrivileges": "Administrator",
      "runWhen": "UserIsOrIsNotSignedIn",
      "commandLine": "-d \"January 31, 2021\" -a \"Absolute Software\" -c
\"IT Department\" -p \"604-123-4567\",
      "alwaysRun32bits": false,
      "startupDir": "/tmp/"
    }
  }
}

```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

GET /v2/reachscripts/{requestUid} errors

Status code	Reason	Action
400 Bad Request	The <code>requestUid</code> parameter isn't valid.	Verify the path is using a valid <code>requestUid</code> .
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
404 Not Found	No Run Script with the specified <code>requestUid</code> was found.	Verify the path is using a valid <code>requestUid</code> .
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

POST /v2/reachscripts/{requestUid}/actions

The POST /v2/reachscripts/{requestUid}/actions endpoint returns a detailed list of all of the Run Script actions for a specific Run Script request. This resource returns a maximum of 100 items per call. Use the `skip` parameter to get additional Run Script actions. You can filter the results by `deviceUids`.

Request

Path parameters

Use the following path parameter:

POST /v2/reachscripts/{requestUid}/actions path parameters

Parameter	Notes	Data type	Description
requestUid	required	string <uuid>	The system-defined unique identifier of the Run Script request Example: " bb846a14-693f-4963-942f-44e7f9f80870 "

Header parameters

The following header parameter can be used, in addition to the required [Authentication headers](#).

Query parameters

The request accepts the following query string parameter:

POST /v2/reachscripts/{requestUid}/actions query parameter

Parameter	Notes	Data type	Description
skip	optional	integer <int64>	The number of Run Script requests to skip Example: POST /v2/reachscripts/{requestUid}/actions? skip=100

Example: POST /v2/reachscripts/{requestUid}/actions request header

```
POST https://api.absolute.com/v2/reachscripts/bb846a14-693f-4963-942f-44e7f9f80870/actions?skip=100
Content-Type: application/json
Authorization: ABS1-HMAC-SHA-256 Credential=8b2d6fe7-0819-49b7-b29b-f565189d5e95/20190627/cadc/abs1, SignedHeaders=host;content-type;x-abs-date, Signature=f84db5f4b00d1c8beca909fdaca6356546ea6fce8b82874132df13c920d4a2c5
X-Abs-Date: 20210102T09000Z
Host: api.absolute.com
```

Request body

The request body accepts JSON formatted data. The following table describes the keys defined in the request body.

POST /v2/reachscripts/{requestUid}/actions request body parameter

Parameter	Notes	Data type	Description
deviceUids	optional	array [string]	The system-defined unique identifiers of the devices included in the request <ul style="list-style-type: none"> Maximum of 10,000 devices Example: " 120e0f2b-a878-4549-ad85-bc4aba26f068 ", " 120e0f2b-a878-4549-ad85-bc4aba26f069 "

Example: POST /v2/reachscripts/{requestUid}/actions request body

```
{
  "deviceUids": [
    "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "120e0f2b-a878-4549-ad85-bc4aba26f069"
  ]
}
```

Response

The following table describes the fields returned for each Run Script request:

POST /v2/reachscripts/{requestUid}/actions response parameters

Parameter	Data type	Description
actionUid	string <uuid>	The system-defined unique identifier for each action that is part of a Run Script request Example: " f029e73e-da3a-4eeb-83cb-b025b9ef0a75 "
requestUid	string <uuid>	The system-defined unique identifier of the Run Script request Example: " bb846a14-693f-4963-942f-44e7f9f80870 "
deviceId	string <uuid>	The system-defined unique identifier of the device Example: " 120e0f2b-a878-4549-ad85-bc4aba26f068 "
deviceName	string	The name assigned to the device Example: " Bob's Laptop "
esn	string	The unique Electronic Serial Number (ESN) assigned to the Absolute agent that is installed on a device Example: " 1L0XXXXB2JAA3KSB0006 "

Parameter	Data type	Description
status	string	The status of the Run Script request on the specified device Possible values: <ul style="list-style-type: none"> • Failed: Either the system or the device was unable to execute the Run Script request • Pending: The Run Script request hasn't been downloaded to the device • Canceled: The Run Script request has been canceled for the device • Processing: The Run Script request is currently being performed on the device but the action isn't complete yet • Succeeded: The Run Script request has run on the device and the action was completed successfully
updatedUtc	string <date-time>	The date and time, in ISO 8601 format, that the Run Script request was last updated ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: "2020-12-04T11:03:15.370Z"
createdUtc	string <date-time>	The time and date, in ISO 8601 format, that the Run Script request was created ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: "2020-12-04T03:47:16.861Z"

Example: POST /v2/reachscripts{requestUid}/actions response

The following is an example of the first record in a successful POST /v2/reachscripts/{requestUid}/actions request.

```
[
  {
    "actionUid": "f029e73e-da3a-4eeb-83cb-b025b9ef0a75",
    "requestUid": "bb846a14-693f-4963-942f-44e7f9f80870",
    "deviceUid": "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "deviceName": "Bob's Laptop",
    "esn": "1L0XXXXB2JAA3KSB0006",
    "status": "Pending",
    "updatedUtc": "2020-12-04T11:03:15.370Z",
    "createdUtc": "2020-12-04T03:47:16.861Z"
  },
  {
    "actionUid": "f029e73e-da3a-4eeb-83cb-b025b9ef0b86",
    "requestUid": "bb846a14-693f-4963-942f-44e7f9f80870",
    "deviceUid": "120e0f2b-a878-4549-ad85-bc4aba26f069",
    "deviceName": "Bob's Desktop",
    "esn": "1L0XXXXB2JAA3KSC0008",
    "status": "Succeeded",
    "updatedUtc": "2020-12-04T11:03:15.370Z",
    "createdUtc": "2020-12-04T03:47:16.861Z"
  }
]
```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

POST /v2/reachscripts/{requestUid}/actions errors

Status code	Reason	Action
400 Bad Request	The <code>requestUid</code> parameter isn't valid.	Verify the path is using a valid <code>requestUid</code> .
	The <code>deviceUids</code> parameter is NULL or empty.	Do one of the following: <ul style="list-style-type: none"> Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices. Remove the <code>deviceUids</code> parameter.
	The <code>deviceUids</code> parameter exceeds the maximum number of device IDs.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

POST /v2/reachscripts/{requestUid}/cancel

The POST `/v2/reachscripts/{requestUid}/cancel` endpoint cancels all Run Script requests with a status of Pending in the `requestUid`. You can include the `deviceUids` parameter to cancel Pending requests on a subset of devices in that belong to the `requestUid`.

It is possible that a device has a status of Pending when the cancel request is sent, but the status changes before the cancel request is sent to the device. In this case, the cancel Run Script request fails for that device.

Request

Path parameters

Use the following path parameter:

GET /v2/reachscripts/{requestUid}/cancel path parameter

Parameter	Notes	Data type	Description
<code>requestUid</code>	required	string <uuid>	The system-defined unique identifier of the Run Script request Example: " bb846a14-693f-4963-942f-44e7f9f80870 "

Header parameters

The [Authentication headers](#) are required.

Body parameters

The request body accepts JSON-formatted data. The following table describes the keys defined in the request body.

POST /v2/reachscripts/{requestUid}/cancel body parameter

Parameter	Notes	Data type	Description
deviceUids	optional	array [string]	<p>The system-defined unique identifiers of the devices included in the request</p> <ul style="list-style-type: none"> Maximum of 10,000 devices If the <code>deviceUids</code> parameter is missing or empty, all Pending Run Script requests for the <code>requestUid</code> are canceled. <p>Example: "120e0f2b-a878-4549-ad85-bc4aba26f068", "120e0f2b-a878-4549-ad85-bc4aba26f069"</p>

Example: POST /v2/reachscripts/{requestUid}/cancel request body

```
{
  "deviceUids": [
    "120e0f2b-a878-4549-ad85-bc4aba26f068",
    "120e0f2b-a878-4549-ad85-bc4aba26f069"
  ]
}
```

Response

A successful request returns an HTTP status code of 204 (No Content). There is no response body.

A request is considered successful if the request is sent successfully. A script can be sent successfully without canceling any Pending requests.

Example: POST /v2/reachscripts/{requestUid}/cancel response header

```
HTTP/1.1 204 No Content
Content-Type: application/json;charset=UTF-8
```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

POST /v2/reachscripts/{requestUid}/cancel errors

Status code	Reason	Action
400 Bad Request	The <code>requestUid</code> parameter is invalid, NULL, or empty.	Verify the path is using a valid <code>requestUid</code> .
	The <code>deviceUids</code> parameter is NULL or empty.	<p>Do one of the following:</p> <ul style="list-style-type: none"> Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices. Remove the <code>deviceUids</code> parameter.

Status code	Reason	Action
400 Bad Request	The <code>deviceUids</code> parameter exceeds the maximum number of device IDs.	Verify that the <code>deviceUids</code> parameter contains between 1 and 10,000 devices.
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
404 Not Found	No Run Script request with the specified <code>requestUId</code> was found.	Verify the path is using a valid <code>requestUId</code> .
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

GET /v2/scriptlibrary/scripts

The GET /v2/scriptlibrary/scripts endpoint returns a list of scripts from the Script Library and returns details about each script. For scripts that can be run on Windows operating systems, this endpoint also returns the PowerShell parameters that can be used when executing the script. This resource returns a maximum of 100 items per call. Use the `skip` parameter to get additional scripts.

Request

Header parameters

The [Authentication headers](#) are required.

Query parameters

The request accepts the following query string parameter:

GET /v2/scriptlibrary/scripts query parameter

Parameter	Notes	Data type	Description
<code>scriptName</code>	optional	string	<p>Text used for searching for scripts by name</p> <ul style="list-style-type: none"> • Must be URI encoded • Case insensitive • Full and partial name of the script accepted <ul style="list-style-type: none"> ◦ Show a Return Device Notification <code>scriptName=Show%20a%20Return%20Device%20Notification</code> ◦ Return Device <code>scriptName=Return%20Device</code> ◦ ret <code>scriptName=ret</code> • Returns an empty array if a match isn't found <p>Example: GET /v2/scriptlibrary/scripts?scriptName=Return%20Device</p>

Parameter	Notes	Data type	Description
type	optional	string <enum>	The author of the script If <code>type</code> isn't specified, returns both Absolute and Custom scripts Possible values: <ul style="list-style-type: none"> Absolute: Default script provided by Absolute Custom: Custom script created and added by a user Example: GET v2/scriptlibrary/scripts? type=Absolute
skip	optional	integer <int64>	The number of scripts to skip Example: GET /v2/scriptlibrary/scripts? skip=100

Example: GET /v2/scriptlibrary/scripts request

```
GET
https://api.absolute.com/v2/scriptlibrary/scripts?scriptName=Return%20Device&skip=100&type=Absolute
Content-Type: application/json
Authorization: ABS1-HMAC-SHA-256 Credential=8b2d6fe7-0819-49b7-b29b-f565189d5e95/20190627/cadc/abs1, SignedHeaders=host;content-type;x-abs-date, Signature=f84db5f4b00d1c8beca909fdaca6356546ea6fce8b82874132df13c920d4a2c5
X-Abs-Date: 20210102T09000Z
Host: api.absolute.com
```

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: GET /v2/scriptlibrary/scripts response header

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
```

Response body

The response body returns an array of objects, with each object containing details on a script. If the script runs on a Windows operating system, the response includes `winScriptParams`. The following table describes the fields returned for each script:

GET /v2/scriptlibrary/scripts response parameters

Parameter	Data type	Description
scriptId	string <uuid>	The system-defined unique identifier for the script Example: " ae07296c-8962-11ea-a376-005056879b56 "
description	string	The description of the script defined in the script body in <code>.SYNOPSIS</code> Example: " This script launches an HTML page in the user's default web browser instructing them to return their device "
name	string	The name of the script Example: " Show a Return Device Notification "

Parameter	Data type	Description
supportedOS	array [string]	The operating systems that the script can be executed on Possible values: <ul style="list-style-type: none"> Windows Mac Example: "Windows", "Mac"
type	string <enum>	The author of the script <ul style="list-style-type: none"> Absolute: Default script provided by Absolute Custom: Custom script created and added by a user
createdUtc	string <date-time>	The time and date, in ISO 8601 format, that the script was created ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: "2020-04-28T17:47:00.000Z"
lastModifiedUtc	string <date-time>	The date and time, in ISO 8601 format, that the script was last updated ISO 8601 format: YYYY-MM-DDThh:mm:ss.SSSZ Example: "2020-04-30T11:27:15.370Z"
winScriptParams	array [object]	The command line parameters that can be used when executing a Run Script request on a Windows device
helpMessage	string	A description of the command line parameter Example: "Enter the date that the device must be returned by"
paramName	string	The name of the command line parameter Example: Date
required	Boolean	Whether the command line parameter is required <ul style="list-style-type: none"> true: A value is required to execute the script on a device false: A value is optional to execute the script on a device
type	string <enum>	The type of value to use for the command line parameter Possible values: <ul style="list-style-type: none"> bool: Boolean boolean char: Character decimal int: Integer long string

Example: GET /v2/scriptlibrary/scripts response body

```
[
  {
    "scriptId": "32ddc9a2-615f-11e9-b554-005056879a7a",
    "description": "This script launches an HTML page in the user's default
```

```
web browser instructing them to return their device",
  "name": "Show a Return Device Notification",
  "supportedOS": [
    "Windows",
    "Mac"
  ],
  "type": "Absolute",
  "createdUtc": "2020-04-28T17:47:00.000Z",
  "lastModifiedUtc": "2020-04-30T11:27:15.370Z",
  "winScriptParams": [
    {
      "helpMessage": "Enter the date that the device must be
returned by",
      "paramName": "Date",
      "required": true,
      "type": "string"
    },
    {
      "helpMessage": "Enter the address to return the device
to",
      "paramName": "Address",
      "required": true,
      "type": "string"
    },
    {
      "helpMessage": "Enter the full name of the contact for
questions and issues",
      "paramName": "Contact",
      "required": true,
      "type": "string"
    },
    {
      "helpMessage": "Enter the contact phone number",
      "paramName": "Phone",
      "required": true,
      "type": "string"
    },
    {
      "helpMessage": "Leave empty or enter the UNC path/URL link
of a logo image 250px x 50px",
      "paramName": "Logo",
      "required": false,
      "type": "string"
    }
  ]
}
```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

GET /v2/scriptlibrary/scripts errors

Status code	Reason	Action
400 Bad Request	The <code>type</code> parameter doesn't use a predefined type, is NULL, or is empty.	Do one of the following: <ul style="list-style-type: none"> Verify that the <code>type</code> parameter use one of the following values: <ul style="list-style-type: none"> Absolute Custom Remove the <code>type</code> parameter
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

GET /v2/scriptlibrary/scripts/{scriptId}

The GET /v2/scriptlibrary/scripts/{scriptId} endpoint returns a ZIP file containing the script file or files for a specific `scriptId`.

Request

Path parameters

Use the following path parameter:

GET /v2/scriptlibrary/scripts/{scriptId} path parameter

Parameter	Notes	Data type	Description
<code>scriptId</code>	required	string <uuid>	The system-defined unique identifier for the script Example: " ae07296c-8962-11ea-a376-005056879b56 "

Header parameters

The [Authentication headers](#) are required.

Response

A successful request returns an HTTP status code of 200 (OK) and a ZIP file. If the script only runs on Windows operating systems, the ZIP file contains a PowerShell script. If the script only runs on Mac operating systems, the ZIP file contains a Bash script. If the script runs on both Windows and Mac operating systems, the ZIP file contains both a PowerShell script and a Bash script.

Example: GET /v2/scriptlibrary/scripts/{scriptId} response header

```
HTTP/1.1 200 OK
Content-Type: application/zip
```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

GET /v2/scriptlibrary/scripts/{scriptId} errors

Status code	Reason	Action
400 Bad Request	The <code>scriptId</code> parameter is invalid, NULL, or empty.	Verify the path is using a valid <code>scriptId</code> .
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
404 Not Found	No script with the specified <code>scriptId</code> was found.	Verify the path is using a valid <code>scriptId</code> .
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

GET /v2/scriptlibrary/scripts/{scriptId}/params

The GET /v2/scriptlibrary/scripts/{scriptId}/params endpoint returns the Windows parameters for the script specified in `scriptId`. To get parameter details for scripts that run on Mac operating systems, use [GET /v2/scriptlibrary/scripts/{scriptId}](#) to download the Bash script. Open the Bash script and examine the script contents.

Request

Path parameters

Use the following path parameter:

GET /v2/scriptlibrary/scripts/{scriptId}/params path parameter

Parameter	Notes	Data type	Description
<code>scriptId</code>	required	string <uuid>	The system-defined unique identifier for the script Example: " ae07296c-8962-11ea-a376-005056879b56 "

Header parameters

The [Authentication headers](#) are required.

Response

A successful request returns an HTTP status code of 200 (OK) and the response body.

Example: GET /v2/scriptlibrary/scripts/{scriptId}/params response header

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

Response body

If the script runs on Windows operating systems, the response body returns an object containing the `winScriptParams`. If the script only runs on Mac operating systems, the response body contains an empty object. The following table describes the fields returned for the script:

GET /v2/sriptlibrary/scripts/{scriptId}/params response parameters

Parameter	Data type	Description
<code>winScriptParams</code>	array [object]	The command line parameters that can be used when executing a Run Script request on a Windows device
<code>helpMessage</code>	string	A description of the command line parameter Example: "Enter the date that the device must be returned by"
<code>paramName</code>	string	The name of the command line parameter Example: Date
<code>required</code>	Boolean	Whether the command line parameter is required <ul style="list-style-type: none"> true: A value is required to execute the script on a device false: A value is optional to execute the script on a device
<code>type</code>	string <enum>	The type of value to use for the command line parameter Possible values: <ul style="list-style-type: none"> <code>bool</code>: Boolean <code>boolean</code> <code>char</code>: Character <code>decimal</code> <code>int</code>: Integer <code>long</code> <code>string</code>

Example: GET /v2/scriptlibrary/scripts/{scriptId}/params response body

```
{
  "winScriptParams": [
    {
      "helpMessage": "Enter the date that the device must be returned by",
```



```

        "paramName": "Date",
        "required": true,
        "type": "string"
    },
    {
        "helpMessage": "Enter the address to return the device to",
        "paramName": "Address",
        "required": true,
        "type": "string"
    },
    {
        "helpMessage": "Enter the full name of the contact for
questions and issues",
        "paramName": "Contact",
        "required": true,
        "type": "string"
    },
    {
        "helpMessage": "Enter the contact phone number",
        "paramName": "Phone",
        "required": true,
        "type": "string"
    },
    {
        "helpMessage": "Leave empty or enter the UNC path/URL link
of a logo image 250px x 50px",
        "paramName": "Logo",
        "required": false,
        "type": "string"
    }
]
}

```

Errors

The following table lists the possible status codes and messages that may be returned when using this endpoint.

GET /v2/scriptlibrary/scripts/{scriptId}/params errors

Status code	Reason	Action
400 Bad Request	The <code>scriptId</code> parameter is invalid, NULL, or empty.	Verify the path is using a valid <code>scriptId</code> .
401 Unauthorized	Signatures from the request and generated signature do not match.	Verify that the authorization request and authenticated headers are correct.
403 Forbidden	The requested user does not have permission to call the API.	Make sure the user associated with the API token has the correct permissions.
404 Not Found	No script with the specified <code>scriptId</code> was found.	Verify the path is using a valid <code>scriptId</code> .
500 Internal Server Error	An internal server error occurred.	If the error persists, contact Absolute Technical Support (www.absolute.com/en/support).

Copyright Information

Reach Script API - Document version 1.1

© 2021 Absolute Software Corporation. All rights reserved. Reproduction or transmission in whole or in part, in any form, or by any means (electronic, mechanical, or otherwise) is prohibited without the prior written consent of the copyright owner. ABSOLUTE, the ABSOLUTE logo, and PERSISTENCE are registered trademarks of Absolute Software Corporation. Other names or logos mentioned herein may be the trademarks of Absolute or their respective owners.