

TalkBack App

TalkBack enables any device to act upon queued commands. For example, if you have a door that is outfitted with Wi-Fi and a motion sensor, you can queue up commands to open and close the door. When the door senses someone nearby, open the door. After a specified time, close the door. If there are no more commands in the queue, the door does not open when the next person approaches.

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Add a TalkBack Command

- [Text](#)
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To add a TalkBack command, send an HTTP POST to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands`, replacing TALKBACK_ID with the actual ID of your TalkBack. There is no limit to the number of commands that a single TalkBack can have.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)
- **command_string** (string) - Command to be sent to your device. There is a limit of 255 characters per command_string.
- **position** (integer) - The position you want this command to appear in. Any previous commands at or after this position will be shifted down. If the position is left blank, the command will automatically be added to the end of the queue (with the highest position).

Text

Example of POST:

```
POST https://api.thingspeak.com/talkbacks/3/commands
api_key=XXXXXXXXXXXXXXXXXX
command_string=OPEND00R
position=5
```

The response will be the command ID, for example: 18.

JSON

To add a TalkBack command, send an HTTP POST to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands.json`, replacing TALKBACK_ID with the actual ID of your TalkBack. There is no limit to the number of commands that a single TalkBack can have.

Example of POST:

```
POST https://api.thingspeak.com/talkbacks/3/commands.json
api_key=XXXXXXXXXXXXXXXXXX
command_string=OPEND00R
position=5
```

The response will be a JSON object of the new command, for example:

```
{
  "command_string": "OPEND00R",
  "created_at": "2013-12-29T17:53:40-05:00",
  "executed_at": null,
  "id": 18,
  "position": 5
}
```

XML

To add a TalkBack command, send an HTTP POST to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack. There is no limit to the number of commands that a single TalkBack can have.

Example of POST:

```
POST https://api.thingspeak.com/talkbacks/3/commands.xml
api_key=XXXXXXXXXXXXXXXXXX
command_string=OPEND00R
position=5
```

The response will be an XML object of the new command, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<command>
  <id type="integer">18</id>
  <command-string>OPEND00R</command-string>
  <position type="integer">5</position>
  <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
  <executed-at type="datetime" nil="true"/>
</command>
```

Get a TalkBack Command

- [Text](#)
- [JSON](#)
- [XML](#)

To show an existing TalkBack command, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)

Text

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands/18?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be the command string, for example: OPEND00R

JSON

To show an existing TalkBack command, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID.json`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands/18.json?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be a JSON object of the new command, for example:

```
{
  "command_string": "OPEND00R",
  "created_at": "2013-12-29T17:53:40-05:00",
  "executed_at": null,
  "id": 18,
  "position": 5
}
```

XML

To show an existing TalkBack command, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands/18.xml?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be an XML object of the new command, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<command>
  <id type="integer">18</id>
  <command-string>OPEND00R</command-string>
  <position type="integer">5</position>
  <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
  <executed-at type="datetime" nil="true"/>
</command>
```

Update a TalkBack Command

- [Text](#)
- [JSON](#)
- [XML](#)

To update an existing TalkBack command, send an HTTP PUT to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)
- **command_string** (string) - Command to be sent to your device
- **position** (integer) - The position you want this command to appear in. Any previous commands at or after this position will be shifted down.

Text

Example of PUT:

```
PUT https://api.thingspeak.com/talkbacks/3/commands/18
  api_key=XXXXXXXXXXXXXXXXXX
  command_string=OPEND00R
  position=5
```

The response will be the command string, for example: OPEND00R

JSON

To update an existing TalkBack command, send an HTTP PUT to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID.json`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Example of PUT:

```
PUT https://api.thingspeak.com/talkbacks/3/commands/18.json
  api_key=XXXXXXXXXXXXXXXXXX
  command_string=OPEND00R
  position=5
```

The response will be a JSON object of the updated command, for example:

```
{
  "command_string": "OPEND00R",
  "created_at": "2013-12-29T17:53:40-05:00",
  "executed_at": null,
  "id": 18,
  "position": 5
}
```

XML

To update an existing TalkBack command, send an HTTP PUT to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Example of PUT:

```
PUT https://api.thingspeak.com/talkbacks/3/commands/18.xml
  api_key=XXXXXXXXXXXXXXXXXX
  command_string=OPEND00R
  position=5
```

The response will be an XML object of the updated command, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<command>
  <id type="integer">18</id>
  <command-string>OPEND00R</command-string>
  <position type="integer">5</position>
  <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
  <executed-at type="datetime" nil="true"/>
</command>
```

Execute the Next TalkBack Command

- [Text](#)
- [JSON](#)

- [XML](#)

To execute the next TalkBack command in the queue (normally in position 1), send an HTTP GET or POST to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/execute`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Executing a command removes it from the queue, sets *executed_at* to the current time, sets *position* to *null*, and reorders the remaining commands.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)

Text

Example of POST:

```
POST https://api.thingspeak.com/talkbacks/3/commands/execute
api_key=XXXXXXXXXXXXXXXXXX
```

The response will be the command string, for example: OPEND00R

If there are no commands left to execute, the response body will be empty.

JSON

To execute the next TalkBack command in the queue (normally in position 1), send an HTTP GET or POST to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/execute.json`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Example of POST:

```
POST https://api.thingspeak.com/talkbacks/3/commands/execute.json
api_key=XXXXXXXXXXXXXXXXXX
```

The response will be a JSON object of the executed command, for example:

```
{
  "command_string": "OPEND00R",
  "created_at": "2013-12-29T17:53:40-05:00",
  "executed_at": "2013-12-30T17:53:40-05:00",
  "id": 18,
  "position": null
}
```

If there are no commands left to execute, the response will be an empty JSON object, for example:

```
{}
```

XML

To execute the next TalkBack command in the queue (normally in position 1), send an HTTP GET or POST to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/execute.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Example of POST:

```
POST https://api.thingspeak.com/talkbacks/3/commands/execute.xml
api_key=XXXXXXXXXXXXXXXXXX
```

The response will be an XML object of the executed command, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<command>
  <id type="integer">18</id>
  <command-string>OPEND00R</command-string>
  <position type="integer" nil="true"/>
  <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
  <executed-at type="datetime">2013-12-31T16:51:17-05:00</executed-at>
</command>
```

If there are no commands left to execute, the response will be an empty XML hash, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<hash></hash>
```

Update a Channel and Execute the Next TalkBack Command

- [Text](#)
- [JSON](#)
- [XML](#)

The next TalkBack command in the queue (normally in position 1) can be executed at the same time a Channel is updated by sending an HTTP GET or POST to <https://api.thingspeak.com/update>.

Executing a command removes it from the queue, sets *executed_at* to the current time, sets *position* to *null*, and reorders the remaining commands.

Note: Please note that the parameters for this action are different than other TalkBack commands. Since a Channel is being updated, the **api_key** parameter refers to the Channel API write key, while the **talkback_key** refers to the TalkBack API key.

Valid parameters:

- **api_key** (string) - API key for the Channel (required)
- **talkback_key** (string) - API key for this specific TalkBack (required)

Additional parameters for updating a Channel can be found in [Update a Channel](#).

Text

Example of POST:

```
POST https://api.thingspeak.com/update
field1=70
api_key=XXXXXXXXXXXXXXXXXX
talkback_key=XXXXXXXXXXXXXXXXXX
```

The response will be the command string, for example: OPEND00R

JSON

The next TalkBack command in the queue (normally in position 1) can be executed at the same time a Channel is updated by sending an HTTP GET or POST to <https://api.thingspeak.com/update.json>.

Example of POST:

```
POST https://api.thingspeak.com/update.json
field1=70
api_key=XXXXXXXXXXXXXXXXXX
talkback_key=XXXXXXXXXXXXXXXXXX
```

The response will be a JSON object of the executed command, for example:

```
{
  "command_string": "OPEND00R",
  "created_at": "2013-12-29T17:53:40-05:00",
  "executed_at": "2013-12-30T17:53:40-05:00",
  "id": 18,
  "position": null
}
```

XML

The next TalkBack command in the queue (normally in position 1) can be executed at the same time a Channel is updated by sending an HTTP GET or POST to `https://api.thingspeak.com/update.xml`.

Example of POST:

```
POST https://api.thingspeak.com/update.xml
  field1=70
  api_key=XXXXXXXXXXXXXXXXXX
  talkback_key=XXXXXXXXXXXXXXXXXX
```

The response will be an XML object of the executed command, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<command>
  <id type="integer">18</id>
  <command-string>OPEND00R</command-string>
  <position type="integer" nil="true"/>
  <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
  <executed-at type="datetime">2013-12-31T16:51:17-05:00</executed-at>
</command>
```

Get the Last Executed Command

- [Text](#)
- [JSON](#)
- [XML](#)

To show the most recently executed TalkBack command, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/last`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)

Text

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands/last?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be the command string, for example: OPEND00R

JSON

To show the most recently executed TalkBack command, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/last.json`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands/last.json?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be a JSON object of the new command, for example:

```
{
  "command_string": "OPEND00R",
  "created_at": "2013-12-29T17:53:40-05:00",
  "executed_at": "2013-12-30T17:53:40-05:00",
  "id": 18,
  "position": null
}
```

XML

To show the most recently executed TalkBack command, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/last.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands/last.xml?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be an XML object of the new command, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<command>
  <id type="integer">18</id>
  <command-string>OPEND00R</command-string>
  <position type="integer" nil="true"/>
  <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
  <executed-at type="datetime">2013-12-31T16:51:17-05:00</executed-at>
</command>
```

Delete a TalkBack Command

- [Text](#)
- [JSON](#)
- [XML](#)

To delete an existing TalkBack command, send an HTTP DELETE to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)

Text

Example of DELETE:

```
DELETE https://api.thingspeak.com/talkbacks/3/commands/18
      api_key=XXXXXXXXXXXXXXXXXX
```

The response will be the deleted command string, for example: OPEND00R

JSON

To delete an existing TalkBack command, send an HTTP DELETE to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID.json`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Example of DELETE:

```
DELETE https://api.thingspeak.com/talkbacks/3/commands/18.json
api_key=XXXXXXXXXXXXXXXXXX
```

The response will be a JSON object of the command before it was deleted, for example:

```
{
  "command_string": "OPEND00R",
  "created_at": "2013-12-29T17:53:40-05:00",
  "executed_at": null,
  "id": 18,
  "position": 5
}
```

XML

To delete an existing TalkBack command, send an HTTP DELETE to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands/COMMAND_ID.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack and COMMAND_ID with the ID of the command.

Example of DELETE:

```
DELETE https://api.thingspeak.com/talkbacks/3/commands/18.xml
api_key=XXXXXXXXXXXXXXXXXX
```

The response will be an XML object of the command before it was deleted, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<command>
  <id type="integer">18</id>
  <command-string>OPEND00R</command-string>
  <position type="integer">5</position>
  <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
  <executed-at type="datetime" nil="true"/>
</command>
```

List All TalkBack Commands

- [Text](#)
- [JSON](#)
- [XML](#)

To show all of a TalkBack's commands, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)

Text

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be the command strings in a comma-separated quoted list, for example: "OPEND00R","CLOSED00R"

JSON

To show all of a TalkBack's commands, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands.json`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands.json?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be a JSON array of all the commands, for example:

```
[
  {
    "command_string": "OPEND00R",
    "created_at": "2013-12-29T17:53:40-05:00",
    "executed_at": null,
    "id": 18,
    "position": 1
  },
  {
    "command_string": "CLOSED00R",
    "created_at": "2013-12-30T17:53:40-05:00",
    "executed_at": null,
    "id": 19,
    "position": 2
  }
]
```

XML

To show all of a TalkBack's commands, send an HTTP GET to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack.

Example of GET:

```
GET https://api.thingspeak.com/talkbacks/3/commands.xml?api_key=XXXXXXXXXXXXXXXXXX
```

The response will be an XML list of all the commands, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<commands type="array">
  <command>
    <id type="integer">18</id>
    <command-string>OPEND00R</command-string>
    <position type="integer">1</position>
    <created-at type="datetime">2013-12-29T16:51:17-05:00</created-at>
    <executed-at type="datetime" nil="true"/>
  </command>
  <command>
    <id type="integer">19</id>
    <command-string>CLOSED00R</command-string>
    <position type="integer">2</position>
    <created-at type="datetime">2013-12-30T16:51:17-05:00</created-at>
    <executed-at type="datetime" nil="true"/>
  </command>
</commands>
```

Delete All TalkBack Commands

- [Text](#)
- [JSON](#)
- [XML](#)

To delete all of a TalkBack's commands, send an HTTP DELETE to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands`, replacing TALKBACK_ID with the actual ID of your TalkBack. Commands that have already been executed will not be deleted.

Valid parameters:

- **api_key** (string) - API key for this specific TalkBack (required)

Text

Example of DELETE:

```
DELETE https://api.thingspeak.com/talkbacks/3/commands
      api_key=XXXXXXXXXXXXXXXXXX
```

The response body will be empty.

JSON

To delete all of a TalkBack's commands, send an HTTP DELETE to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands.json`, replacing TALKBACK_ID with the actual ID of your TalkBack. Commands that have already been executed will not be deleted.

Example of DELETE:

```
DELETE https://api.thingspeak.com/talkbacks/3/commands.json
      api_key=XXXXXXXXXXXXXXXXXX
```

The response will be an empty JSON array, for example:

```
[]
```

XML

To delete all of a TalkBack's commands, send an HTTP DELETE to `https://api.thingspeak.com/talkbacks/TALKBACK_ID/commands.xml`, replacing TALKBACK_ID with the actual ID of your TalkBack. Commands that have already been executed will not be deleted.

Example of DELETE:

```
DELETE https://api.thingspeak.com/talkbacks/3/commands.xml
      api_key=XXXXXXXXXXXXXXXXXX
```

The response will be an empty XML array, for example:

```
<?xml version="1.0" encoding="UTF-8"?>
<nil-classes type="array" />
```

TalkBack Example

The following steps control a door that opens only once:

1. Create a new TalkBack using the web interface.
2. Add some queued commands using the web interface or API, such as "OPENDOOR", "CLOSEDOOR".
3. If the door (with Wi-Fi and a connected motion sensor) senses someone nearby, execute the next command from ThingSpeak: "OPENDOOR".
4. After 5 minutes of no motion detected, execute the next command from ThingSpeak: "CLOSEDOOR".

5. When someone else approaches the door, execute the next command from ThingSpeak, which will be empty--the door won't open again until more commands are added to the queue.
-