

Update the Most Recent Stream Value

Adds the most recent data value to a stream. A timestamp can be optionally supplied. If no time-stamp is supplied, then the time when the data was received by the server is used as the timestamp.

URL:

```
PUT http://api-m2x.att.com/v2/devices/{device-ID}/streams/speed/values
```

where {device-ID} is the ID of the device.

Request headers:

Header Name	Required	Description
Content-Type	Required	The format of the posted data. Set to application/json .
X-M2X-KEY	Required	Your Device's API Key

PUT body key/value pairs:

Key	Required	Parent	Type	Value Description
value	Required	Top level	Number	A value
timestamp	Optional	Top level	String	The time-stamp in ISO 8601 format. The default is the current time of the server is used.

Example PUT body:

```
{
  "timestamp": "2015-05-09T19:15:00.624Z",
  "value": "32"
}
```

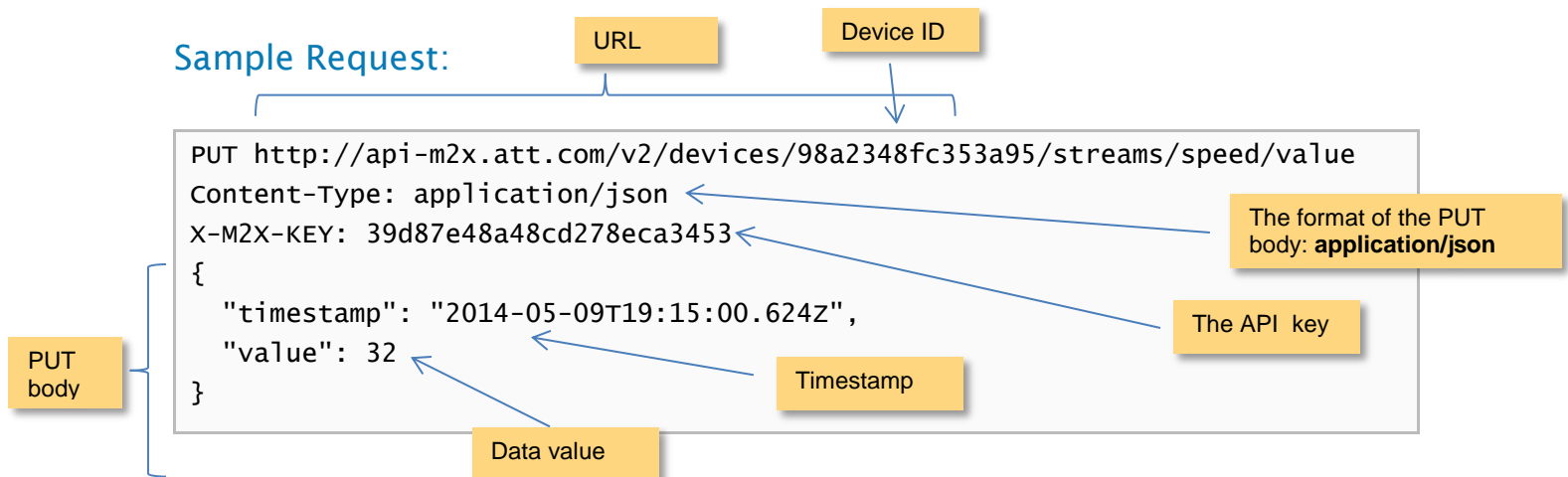
Response Elements:

Element Name	Description
status	If the request is successful, will have the value "accepted".
message	If the request is not successful, will have an error message.



Update the Most Recent Stream Value: Example

Sample Request:



Sample Response:

```
{
  "status": "accepted"
}
```



Post Multiple Data Values to a Stream

Adds multiple data values to a stream with timestamps.

URL:

```
POST http://api-m2x.att.com/v2/devices/{device-ID}/streams/speed/values
```

where {device-ID} is the ID of the device.

Request headers:

Header Name	Required	Description
Content-Type	Required	The format of the posted data. Set to application/json .
X-M2X-KEY	Required	Your Data Source's API Key

POST body key/value pairs:

Key	Required	Parent	Type	Value Description
values	Required	Top level	Array of value objects	An array with values and timestamps
value	Required	values	Number	A string that contains the value
timestamp	Required	values	String	A string that contains the time-stamp in ISO 8601 format. If omitted, the current time of the server is used.

Example POST body:

```
{
  "values": [
    { "timestamp": "2014-05-09T19:15:00.624Z", "value": 32 },
    { "timestamp": "2014-05-09T20:15:00.522Z", "value": 30 }
  ]
}
```

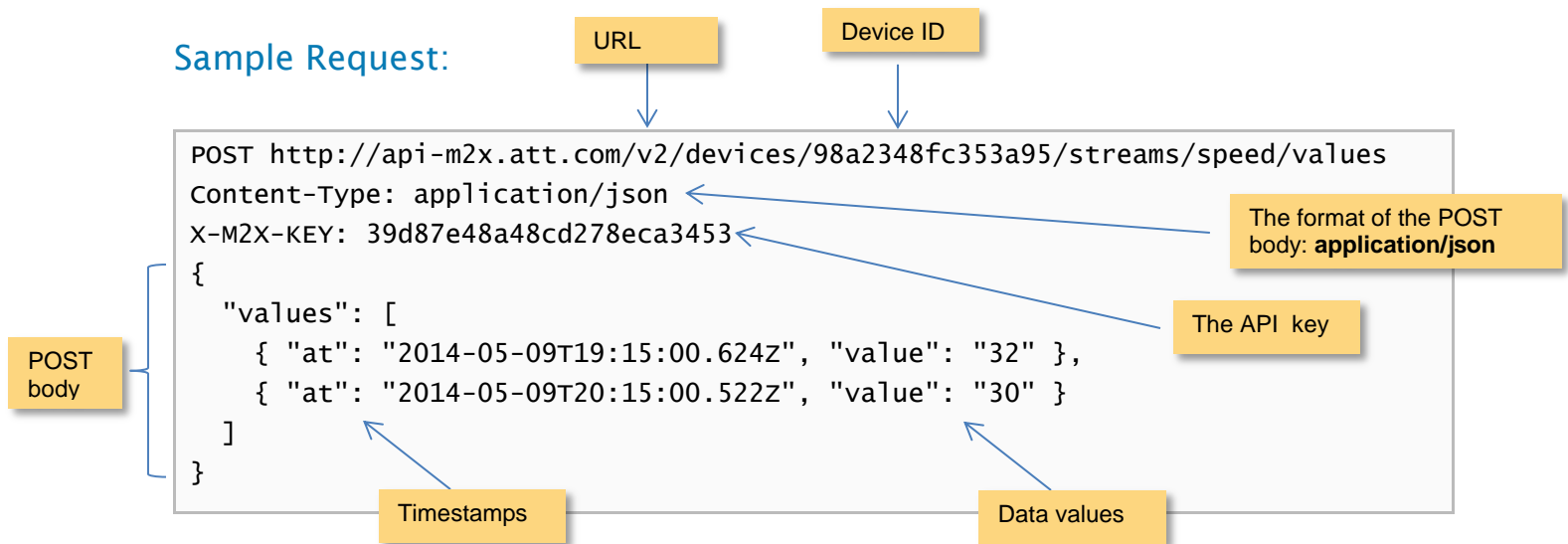
Response Elements:

Element Name	Description
status	If the request is successful, will have the value "accepted".
message	If the request is not successful, will have an error message.



Post Multiple Data Values to a Stream: Example

Sample Request:



Sample Response:

```
{
  "status": "accepted"
}
```



Get Data from a Stream

Retrieves data values from a stream. Optional query parameters can be used for pagination.

URL:

```
GET http://api-m2x.att.com/v2/devices/{device-ID}/streams/speed/values
```

where {device-ID} is the ID of the device.

Request headers:

Header Name	Required	Description
X-M2X-KEY	Required	Your Device's API Key

Query parameters:

Parameter	Required	Value Description	Default
start	Optional	The starting date and time in ISO 8601 format for data to be returned.	Time when stream was created
end	Optional	The ending date and time in ISO 8601 format for data to be returned.	Current time
limit	Optional	The maximum number of values to return.	100

Response Elements:

Element Name	Description
start	Specified start time. null, if not specified.
end	Specified end time
limit	Maximum number of values returned
values	An array with values and timestamps
value	A string that contains the value
at	A string that contains the time-stamp in ISO 8601 format.



Get Data from DataStream: Example

Sample Request:

GET `http://api-m2x.att.com/v2/devices/98a2348fc353a95/streams/speed/values`
X-M2X-KEY: 39d87e48a48cd278eca3453

URL

Device ID

The API key

Sample Response:

```
{
  "limit":100,
  "end":"2015-02-21T23:27:49.673Z",
  "values":[
    {
      "timestamp":"2015-02-21T23:11:24.780Z",
      "value":0.0
    },
    {
      "timestamp":"2015-02-20T17:28:13.880Z",
      "value":55.0
    },
    {
      "timestamp":"2015-02-20T17:26:51.375Z",
      "value":35.0
    }
  ]
}
```

Starts when the stream was created.
Ends at the current time.
Maximum 100 values returned.

Values and timestamps



Create a Trigger

Creates a trigger, which will make a POST to the specified URL when the trigger condition is satisfied.

URL:

```
POST http://api-m2x.att.com/v2/devices/{device-ID}/triggers
```

where {device-ID} is the ID of the device.

Request headers:

Header Name	Required	Description
Content-Type	Required	The format of the posted data. Set to application/json .
X-M2X-KEY	Required	Your Data Source's API Key

POST body key/value pairs:

Key	Required	Value Description
name	Required	The name of the trigger
stream	Required	The name of the stream
condition	Required	The condition, which can be <, <=, =, > or >=
value	Required	The value to use with the condition
callback_url	Required	The URL that will be called if data matches the condition
status	Required	Either "enabled" or "disabled"
send_location	Required	If true, the trigger payload will include the last set of long/lat/altitude values stored for the device. If false, not included.

Note: All key/value pairs are at the top level

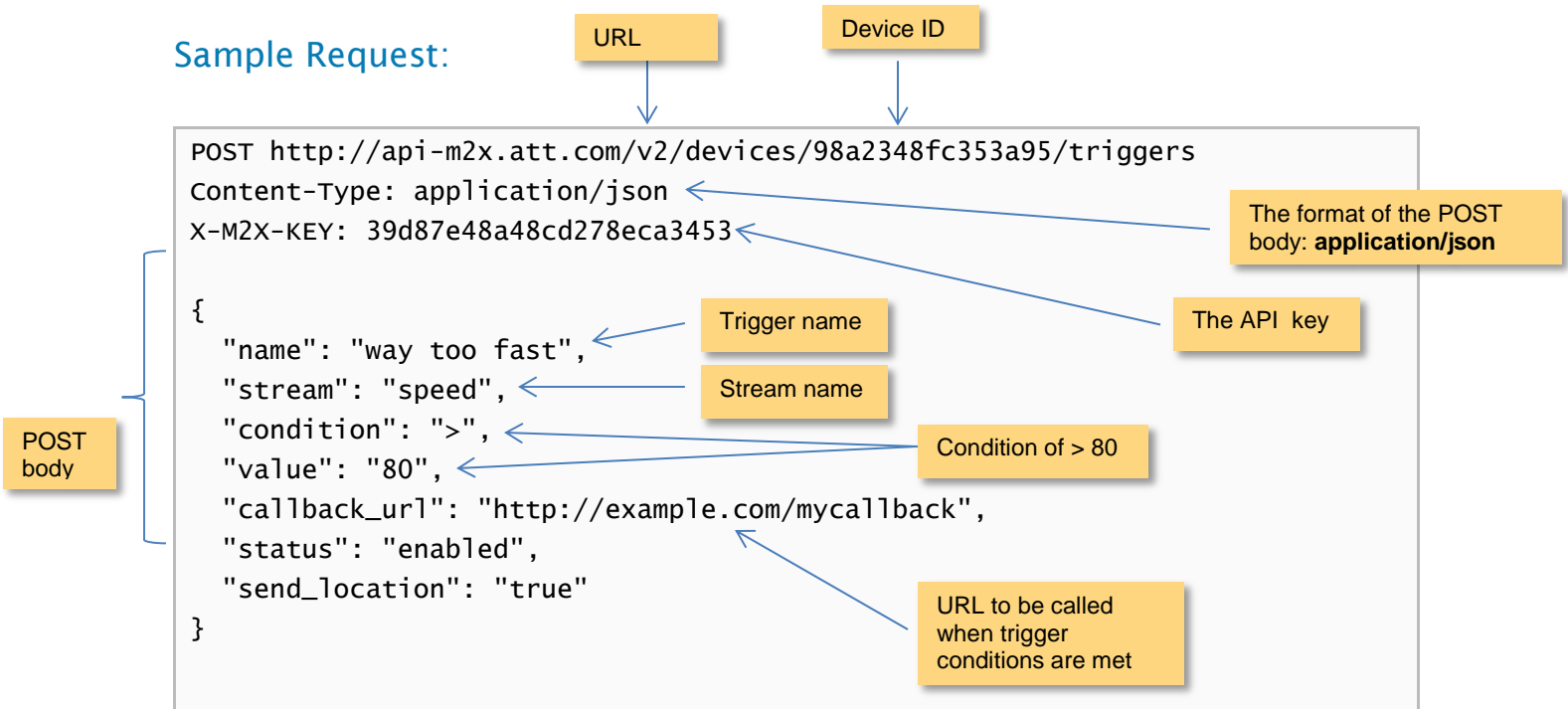
Response Elements:

Element Name	Description
id	The ID of the trigger
name	The name of the trigger
stream	The name of the stream
condition	The condition, which can be <, <=, =, > or >=
value	The value to use with the condition
callback_url	The URL that will be called if data matches the condition
url	The URL of the trigger
status	Either "enabled" or "disabled"
send_location	If true, the trigger payload will include the last set of long/lat/altitude values stored for the device. If false, not included.
created	Timestamp for when the trigger was created



Create a Trigger: Example

Sample Request:



Sample Response:

