

# event.get

## Description

integer/array event.get(object **parameters**)

The method allows to retrieve events according to the given parameters.

This method may return events of a deleted entity if these events have not been removed by the housekeeper yet.

## Parameters

(object) Parameters defining the desired output.

The method supports the following parameters.

Parameter	Type	Description
eventids	string/array	Return only events with the given IDs.
groupids	string/array	Return only events created by objects that belong to the given host groups.
hostids	string/array	Return only events created by objects that belong to the given hosts.
objectids	string/array	Return only events created by the given objects.
applicationids	string/array	Return only events created by objects that belong to the given applications. Applies only if object is trigger or item.
source	integer	Return only events with the given type.  Refer to the <a href="#">event object page</a> for a list of supported event types.  Default: 0 - trigger events.
object	integer	Return only events created by objects of the given type.  Refer to the <a href="#">event object page</a> for a list of supported object types.  Default: 0 - trigger.
acknowledged	boolean	If set to true return only acknowledged events.
suppressed	boolean	true - return only suppressed events; false - return events in the normal state.
severities	integer/array	Return only events with given event severities. Applies only if object is trigger.
evaltype	integer	Rules for tag searching.  Possible values: 0 - (default) And/Or; 2 - Or.

Parameter	Type	Description
tags	array of objects	Return only events with given tags. Exact match by tag and case-insensitive search by value and operator. Format: [{"tag": "<tag>", "value": "<value>", "operator": "<operator>"}, ...]. An empty array returns all events.  Possible operator types: 0 - (default) Like; 1 - Equal.
eventid_from	string	Return only events with IDs greater or equal to the given ID.
eventid_till	string	Return only events with IDs less or equal to the given ID.
time_from	timestamp	Return only events that have been created after or at the given time.
time_till	timestamp	Return only events that have been created before or at the given time.
problem_time_from	timestamp	Returns only events that were in the problem state starting with <code>problem_time_from</code> . Applies only if the source is trigger event and object is trigger. Mandatory if <code>problem_time_till</code> is specified.
problem_time_till	timestamp	Returns only events that were in the problem state until <code>problem_time_till</code> . Applies only if the source is trigger event and object is trigger. Mandatory if <code>problem_time_from</code> is specified.
value	integer/array	Return only events with the given values.
selectHosts	query	Return a <code>hosts</code> property with hosts containing the object that created the event. Supported only for events generated by triggers, items or LLD rules.
selectRelatedObject	query	Return a <code>relatedObject</code> property with the object that created the event. The type of object returned depends on the event type.
select_alerts	query	Return an <code>alerts</code> property with alerts generated by the event. Alerts are sorted in reverse chronological order.

Parameter	Type	Description
select_acknowledges	query	<p>Return an acknowledges property with event updates. Event updates are sorted in reverse chronological order.</p> <p>The event update object has the following properties:            acknowledgeid - (string) acknowledgement's ID;            userid - (string) ID of the user that updated the event;            eventid - (string) ID of the updated event;            clock - (timestamp) time when the event was updated;            message - (string) text of the message;            action - (integer) update action that was performed see <a href="#">event.acknowledge</a>;            old_severity - (integer) event severity before this update action;            new_severity - (integer) event severity after this update action;            alias - (string) alias of the user that updated the event;            name - (string) name of the user that updated the event;            surname - (string) surname of the user that updated the event.</p> <p>Supports count.</p>
selectTags	query	Return a tags property with event tags.
selectSuppressionData	query	<p>Return a suppression_data property with the list of maintenances:</p> <p>maintenanceid - (string) ID of the maintenance;            suppress_until - (integer) time until the event is suppressed.</p>
sortfield	string/array	<p>Sort the result by the given properties.</p> <p>Possible values are: eventid, objectid and clock.</p>
countOutput	boolean	<p>These parameters being common for all get methods are described in detail in the <a href="#">reference commentary</a> page.</p>
editable	boolean	
excludeSearch	boolean	
filter	object	
limit	integer	
output	query	
preservekeys	boolean	
search	object	
searchByAny	boolean	
searchWildcardsEnabled	boolean	
sortorder	string/array	
startSearch	boolean	

## Return values

(integer/array) Returns either:

- an array of objects;
- the count of retrieved objects, if the countOutput parameter has been used.

## Examples

### Retrieving trigger events

Retrieve the latest events from trigger "13926."

Request:

```
{
  "jsonrpc": "2.0",
  "method": "event.get",
  "params": {
    "output": "extend",
    "select_acknowledges": "extend",
    "selectTags": "extend",
    "selectSuppressionData": "extend",
    "objectids": "13926",
    "sortfield": ["clock", "eventid"],
    "sortorder": "DESC"
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "acknowledges": [
        {
          "acknowledgeid": "1",
          "userid": "1",
          "eventid": "9695",
          "clock": "1350640590",
          "message": "Problem resolved.\n\n--- [BULK ACKNOWLEDGE]-",
          "action": "6",
          "old_severity": "0",
          "new_severity": "0",
          "alias": "Admin",
          "name": "Zabbix",
          "surname": "Administrator"
        }
      ],
      "eventid": "9695",
      "source": "0",
      "object": "0",
    }
  ]
}
```

```
    "objectid": "13926",
    "clock": "1347970410",
    "value": "1",
    "acknowledged": "1",
    "suppressed": "1",
    "ns": "413316245",
    "name": "MySQL is down",
    "severity": "5",
    "r_eventid": "0",
    "c_eventid": "0",
    "correlationid": "0",
    "userid": "0",
    "tags": [
      {
        "tag": "service",
        "value": "mysqld"
      },
      {
        "tag": "error",
        "value": ""
      }
    ],
    "suppression_data": [
      {
        "maintenanceid": "15",
        "suppress_until": "1472511600"
      }
    ]
  },
  {
    "acknowledges": [],
    "eventid": "9671",
    "source": "0",
    "object": "0",
    "objectid": "13926",
    "clock": "1347970347",
    "value": "0",
    "acknowledged": "0",
    "suppressed": "0",
    "ns": "0",
    "name": "Unavailable by ICMP ping",
    "severity": "4",
    "r_eventid": "0",
    "c_eventid": "0",
    "correlationid": "0",
    "userid": "0",
    "tags": [],
    "suppression_data": []
  }
],
"id": 1
```

```
}
```

## Retrieving events by time period

Retrieve all events that have been created between October 9 and 10, 2012, in reverse chronological order.

Request:

```
{
  "jsonrpc": "2.0",
  "method": "event.get",
  "params": {
    "output": "extend",
    "time_from": "1349797228",
    "time_till": "1350661228",
    "sortfield": ["clock", "eventid"],
    "sortorder": "desc"
  },
  "auth": "038e1d7b1735c6a5436ee9eae095879e",
  "id": 1
}
```

Response:

```
{
  "jsonrpc": "2.0",
  "result": [
    {
      "eventid": "20616",
      "source": "0",
      "object": "0",
      "objectid": "14282",
      "clock": "1350477814",
      "value": "1",
      "acknowledged": "0",
      "suppressed": "0",
      "ns": "0",
      "name": "Less than 25% free in the history cache",
      "severity": "3",
      "r_eventid": "0",
      "c_eventid": "0",
      "correlationid": "0",
      "userid": "0"
    },
    {
      "eventid": "20617",
      "source": "0",
      "object": "0",

```

```
    "objectid": "14283",
    "clock": "1350477814",
    "value": "0",
    "acknowledged": "0",
    "suppressed": "0",
    "ns": "0",
    "name": "Zabbix trapper processes more than 75% busy",
    "severity": "3",
    "r_eventid": "0",
    "c_eventid": "0",
    "correlationid": "0",
    "userid": "0"
  },
  {
    "eventid": "20618",
    "source": "0",
    "object": "0",
    "objectid": "14284",
    "clock": "1350477815",
    "value": "1",
    "acknowledged": "0",
    "suppressed": "0",
    "ns": "0",
    "name": "High ICMP ping loss",
    "severity": "3",
    "r_eventid": "0",
    "c_eventid": "0",
    "correlationid": "0",
    "userid": "0"
  }
],
  "id": 1
}
```

## See also

- [Alert](#)
- [Item](#)
- [Host](#)
- [LLD rule](#)
- [Trigger](#)

## Source

CEvent::get() in *frontends/php/include/classes/api/services/CEvent.php*.

From:

<https://www.zabbix.com/documentation/4.4/> - **Zabbix Documentation 4.4**

Permanent link:

<https://www.zabbix.com/documentation/4.4/manual/api/reference/event/get>

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