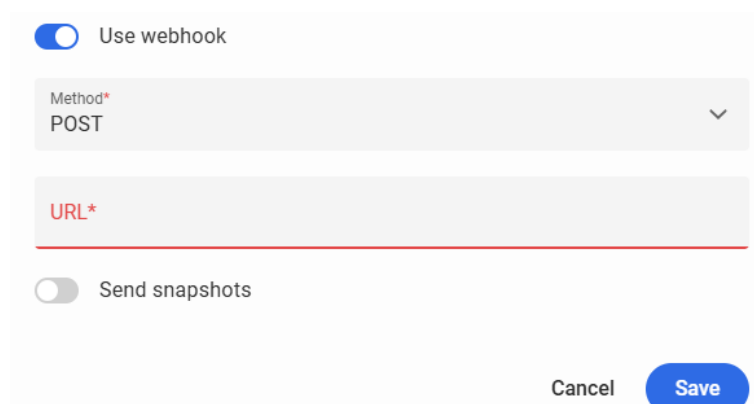


# Using a webhook to notify you of alarm monitor events

To notify users about events on alarm monitors, it is possible to send events and images of video frames of events to external systems using a webhook.

To do this, when creating an alarm monitor, you need to activate the option **Use webhook** And specify the following:

A screenshot of a configuration form for a webhook. At the top, there is a toggle switch labeled 'Use webhook' which is turned on. Below this is a dropdown menu labeled 'Method\*' with 'POST' selected. Underneath the dropdown is a text input field labeled 'URL\*' which is currently empty. At the bottom of the form, there is another toggle switch labeled 'Send snapshots' which is turned off. In the bottom right corner, there are two buttons: 'Cancel' and 'Save'.

- **Method**– select query (DELETE, GET, HEAD, OPTIONS, PATCH, POST, PUT, TRACE), which will be sent to the specified URL.
- **URL**– the address of the resource to which notifications will be sent.
- **Send snapshots**– Enables the ability to send a video frame using a webhook. The option is available for the method `POST`.



Creating an alarm monitor is described in more detail in the User Guide.

After the alarm monitor is enabled, events are sent to the user at the specified URL in .json format.

## Parameter values in messages for the events “Face found in list” and “Number found in list”

Parameter	Field type	Required parameter	Comments
<code>monitor_id</code>	integer	Yes	Unique identifier of the alarm monitor

Parameter	Field type	Required parameter	Comments
id	string	Yes	Unique event identifier and event start time in millisec format (event_id)
event_id	integer	Yes	Unique event identifier
topic	string	Yes	Event type:  FaceMatched – event type “Face found in the list”  PlateMatched – event type “Number found in list”  *only the types of events that relate to the receipt of data on the receipt of information on persons/vehicles placed under control are indicated
module	string	Yes	Analytics module  values:  KX.PDD – “Road Situation” module  KX.Faces” – module “Face Recognition”  *only modules related to obtaining data on obtaining information about persons/vehicles placed under control are indicated
level	integer	Yes	Priority:  0 – Low 1 - Normal 2 – High 3 – Critical
start_time	integer	Yes	Date and time of the event start  Value in millisec format

Parameter			Field type	Required parameter	Comments
end_time			integer	No	Date and time of the end of the event  Value in millisec format
params				Yes	Event parameters
identities	faces	id	integer	Yes	Unique person identifier
		similarity	number	Yes	Degree of similarity between a person from an event and a person from a list  maximum: 1 minimum: 0.01
		first_name	string	Yes	Name of the person (if there is no possibility to transfer personal data, then you must enter any value in the field)  maxLength: 64 minLength: 0
		last_name	string	Yes	Surname of the person (if there is no possibility to transfer personal data, then it is necessary to enter any value in the field)  maxLength: 64 minLength: 0
	plates	id	integer	Yes	unique vehicle identifier
		number	string	Yes	registration number  maxLength: 12 minLength: 0  Allowed characters: Latin letters and "-_"

Parameter			Field type	Required parameter	Comments
		state	string	Yes	<p>The state to which the registration plate belongs</p> <p>Values:</p> <p>AT – Austria  AZ – Azerbaijan  AM – Armenia  BY – USA  BG – Bulgaria  UK – Great Britain  HU – Hungary  DE – Germany  GR – Greece  GE – Georgia  IL – Israel  IE - Ireland  ES - Spain  IT - Italy  KZ – Kazakhstan  CN – China  KG - Import  LV – Latvia  LT – Lithuania  NW – Luxembourg  MT – Malta  MD - Moldova  MS – Monaco  MN – Mongolia  NL – the Netherlands  AE – UAE  PL – Poland  PT - Portugal  RU – Russia  RO – Romania  RS – Serbia  SK - Slovakia  US – USA  TJ – Tajikistan  TH – Thailand  TR – Turkey  UZ - Uzbekistan  UA - Ukraine  FI – Finland  FR – France  HR – Croatia  ME – Montenegro  CZ – Czech Republic  CH – Switzerland  SE – Sweden  EE – Estonia</p>

Parameter			Field type	Required parameter	Comments
					UNKNOWN – Unknown
		owner_first_name	string	Yes	Name of the vehicle owner (if there is no possibility to transfer personal data, then you must enter any value in the field)  maxLength: 30 minLength: 1
	list	owner_last_name	string	Yes	Last name of the vehicle owner (if there is no possibility to transfer personal data, then you must enter any value in the field)  maxLength: 30 minLength: 1
		id	integer	Yes	Unique list identifier
		name	string	yes	Name of the list of persons/vehicles  maxLength: 128 minLength: 1
		level	integer	Yes	Priority  Values: 0 – Low 1 - Normal 2 – High 3 – Critical
attributes		age	integer	No	The age of the person determined by analytics  Values: from 0 to 99
		gender	string	No	The gender of a person determined by analytics  Values: male – male female – female

Parameter		Field type	Required parameter	Comments
	race	string	No	<p>The appearance of a person determined by analytics</p> <p>Values:            asian – Asian            black – African            Caucasian – European            hindu – Indian            unknown – Not determined</p>
	glasses	boolean	No	<p>The presence of points on a person determined by analytics</p> <p>Values:            true – yes            false – no</p>
	beard	boolean	No	<p>The presence of a beard on a person determined by analytics</p> <p>Values:            true – yes            false – no</p>
	has	boolean	No	<p>The presence of a headdress on a person determined by analytics</p> <p>Values:            true – yes            false – no</p>
	mask	boolean	No	<p>The presence of a medical mask on a person determined by analytics</p> <p>Values:            true – yes            false – no</p>

Parameter			Field type	Required parameter	Comments
object	color	value	string	No	The color of the vehicle determined by analytics  Values: unknown – color not recognized white – white yellow – yellow orange – orange red – red green – green blue – light blue brown – brown gray – gray black – black
		reliability	string	No	Probability of recognition  maxLength: 1  minLength: 0.01
	object_type	value	string	No	Transport type determined by analytics  Values: truck – a cargo vehicle bus – bus van – minibus car – passenger car
		reliability	string	No	Probability of object type recognition  maxLength: 1  minLength: 0.01
reliability			string	Yes	Probability of vehicle number recognition  maxLength: 1  minLength: 0.01
eventId			integer	Yes	Unique event identifier

Parameter		Field type	Required parameter	Comments
snapshots	type	string	Yes	Video frame type  Values: FULLSCREEN – full frame video THUMBNAIL – image of the detected object
	path	string	Yes	Path to video frame  maximum: 512 minimum: 1
	image	base64	No	Image
channel_id		integer	Yes	Camera ID
channel_type		string	Yes	Camera type  Meaning: STREAM – fixed camera
stream_id		integer	Yes	Unique video stream identifier
channel_name		string	Yes	Camera name  maxLength: 256 minLength: 1
channel_latitude		number	Yes	Latitude of the camera installation location on the map  maximum: 90 minimum: -90
channel_longitude		number	Yes	Longitude of the camera installation location on the map  maximum: 180 minimum: -180
channel_address			Yes	Composite field. Address
	country	string	Yes	Side
	region	string	No	Region/area



Parameter		Field type	Required parameter	Comments
	county	string	No	Region of the region
	city	string	No	City/village
	district	string	No	City area
	street	string	No	Street/dom
	place_info	string	No	House
tags	id	integer	No	Unique tag identifier
	name	string	No	Tag name maximum: 128 minimum: 1

## Examples of messages sent

### Face found in list

```
{
  "monitor_id": 114,
  "id": "203:1691055920965:4829655691653739",
  "event_id": "4829655691653739",
  "topic": "FaceMatched",
  "module": "KX.Faces",
  "level": 1,
  "start_time": 1685973361368,
  "end_time": 1685973369197,
  "params": {
    "identities": [
      {
        "faces": [
          {
            "id": 14461,
            "similarity": 0.93269664,
            "first_name": "Mark",
            "last_name": "Frol"
          }
        ],
        "list": {
          "id": 552,
```

```
"name": "List",
    "level": 1
  }
},
"attributes": {
  "age": 44,
  "gender": "male",
  "race": "caucasian",
  "glasses": true,
  "beard": true,
"has": false,
  "mask": false
},
"snapshots": [
  {
    "type": "FULLSCREEN",
    "path":
"/api/v1/media/snapshot/274-610/38...12.jpg?t=2592000",
    "image": "iV...II"
  },
  {
    "type": "THUMBNAIL",
    "path":
"/api/v1/media/snapshot/274-610/thumbnail/38...12.jpg?t=2592000",
    "image": "iV...II"
  },
  {
    "type": "THUMBNAIL",
    "path":
"/api/v1/media/snapshot/274-610/thumbnail/38...24.jpg?t=2592000",
    "image": "iV...II"
  }
],
"channel": {
  "id": 274,
  "channel_type": "STREAM",
  "name": "1-4-09",
  "latitude": 13.90930437837479,
  "longitude": 17.596215903759006,
  "address": {
"country": "USA",
"region": "A region",
```

```

        "county": "123 district",
"city": "Miami",
"district": "Beavers",
"street": "Highway street",
        "place_info": "32"
    },
    "tags": [
        {
            "id": 170,
            "name": "Face"
        }
    ]
}

```

## Number found in list

```

{
    "monitor_id": 114,
    "id": "203:1691055920965:4829655691653739",
    "event_id": "4829655691653739",
    "topic": "PlateMatched",
    "module": "KX.PDD",
    "level": 2,
    "start_time": 1685979817214,
    "end_time": 1685979829336,
    "params": {
        "identities": [
            {
                "plates": [
                    {
                        "id": 186177,
                        "number": "2222HH7",
                        "state": "BY",
                        "owner_first_name": "Sergey",
                        "owner_last_name": "Ivanov"
                    }
                ],
                "list": {
                    "id": 3,
                    "name": "GSM",
                    "level": 2
                }
            }
        ]
    }
}

```

```

        }
    },
    ],
    "object": {
        "color": {
            "value": "gray",
            "reliability": 0.98652285
        },
        "object_type": {
            "value": "car",
            "reliability": 0.99994373
        },
    },
    },
    "reliability": 0.9884001
},
"snapshots": [
    {
        "type": "FULLSCREEN",
        "path":
"/api/v1/media/snapshot/68...90.jpg?t1=2592000",
        "image": "iV...II"
    },
    {
        "type": "THUMBNA1L",
        "path":
"/api/v1/media/snapshot/682-1164/best-8816/0...00.jpg?t1=2592000",
        "image": "i...II"
    },
    {
        "type": "THUMBNA1L",
        "path":
"/api/v1/media/snapshot/682-1164/aligned-8816/0...72.jpg?t1=259200
0",
        "image": "iV...II"
    }
],
"channel": {
    "id": 274,
    "channel_type": "STREAM",
    "name": "1-4-09",
    "latitude": 13.90930437837479,
    "longitude": 17.596215903759006,
    "address": {
"country": "USA",

```

```

"region": "A region",
    "county": "123 district",
"city": "Miami",
"district": "Beavers",
"street": "Highway street",
    "place_info": "32"
},
"tags": [
    {
        "id": 170,
        "name": "Face"
    }
]
}
}

```

## Other events

Messages for other events may or may not contain an image of the event's video frames.

An example of a message containing images of frames of a video event:

```

{
    "monitor_id": 114,
    "id": "203:1691055920965:4829655691653739",
    "event_id": "4829655691653739",
    "topic": "...",
    "module": "KX..",
    "source_name": "..",
    "level": 1,
    "start_time": 1685973361368,
    "end_time": 1685973369197,
    "params": {...},
    "snapshots": [
        {
            "type": "FULLSCREEN",
            "path":
"/api/v1/media/snapshot/274-610/3824-1685973361368531712.jpg?ttl=25
92000",
            "image": "data:image/png;base64,iV...II"
        },
        {
            "type": "THUMBNAIL",

```

```

        "path":
"/api/v1/media/snapshot/274-610/thumbnail/3824-1685973361368531712.
jpg?ttnl=2592000",
        "image": "data:image/png;base64,iV...II"
    },
    {
        "type": "THUMBNAII",
        "path":
"/api/v1/media/snapshot/274-610/thumbnail/3824-1685973364548186624.
jpg?ttnl=2592000",
        "image": "data:image/png;base64,iV...II"
    }
],
"channel": {
    "id": 274,
    "channel_type": "STREAM",
    "name": "1-4-09",
    "latitude": 13.90930437837479,
    "longitude": 17.596215903759006,
    "address": {
"country": "USA",
"region": "A region",
        "county": "123 district",
"city": "Miami",
"district": "Beavers",
"street": "Highway street",
        "place_info": "32"
    },
    "tags": [
        {
            "id": 170,
            "name": "Face"
        }
    ]
}
}

```

Example of a message that does not contain images of video frames of an event:

```

{
    "monitor_id": 114,
    "id": "203:1691055920965:4829655691653739",
    "event_id": "4829655691653739",
    "topic": "...",

```

```
    "module": "KX..",
    "source_name": "..",
    "level": 1,
    "start_time": 1685973361368,
    "end_time": 1685973369197,
    "params": {},
    "snapshots": [
      {
        "type": "FULLSCREEN",
        "path":
"/api/v1/media/snapshot/274-610/3824-1685973361368531712.jpg?ttl=25
92000",
      }
    ],
    "channel": {
      "id": 274,
      "channel_type": "STREAM",
      "name": "1-4-09",
      "latitude": 13.90930437837479,
      "longitude": 17.596215903759006,
      "address": {
        "country": "USA",
        "region": "A region",
        "county": "123 district",
        "city": "Miami",
        "district": "Beavers",
        "street": "Highway street",
        "place_info": "32"
      },
      "tags": [
        {
          "id": 170,
          "name": "Face"
        }
      ]
    }
  }
}
```