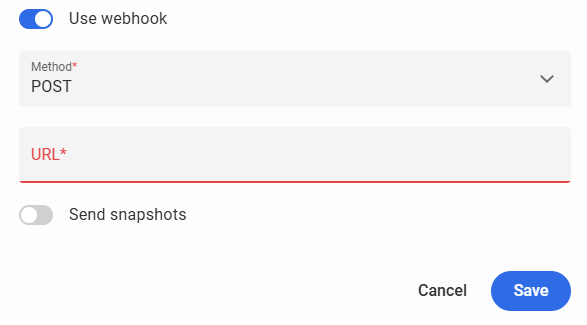
# **Using a webhook to notify you of alarm monitor events**

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** Andspecify the following:



* **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 methodPOST.

|  | 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** |
| --- | --- | --- | --- | --- | --- |
| monitor\_id | | | integer | Yes | Unique identifier of the alarm monitor |
| 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 |
| 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 "-\_" |
| state | string | Yes | The state to which the registration plate belongs  Values:  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  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 |
| 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 |
| list | 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 |
| race | string | No | The appearance of a person determined by analytics  Values:  asian – Asian  black – African  Caucasian – European  hindu – Indian  unknown – Not determined |
| glasses | boolean | No | The presence of points on a person determined by analytics  Values:  true – yes  false – no |
| beard | boolean | No | The presence of a beard on a person determined by analytics  Values:  true – yes  false – no |
| has | boolean | No | The presence of a headdress on a person determined by analytics  Values:  true – yes  false – no |
| mask | boolean | No | The presence of a medical mask on a person determined by analytics  Values:  true – yes  false – no |
| 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 |
| 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 |
| 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?ttl=2592000",  "image": "iV...II"  },  {  "type": "THUMBNAIL",  "path": "/api/v1/media/snapshot/274-610/thumbnail/38…12.jpg?ttl=2592000",  "image": "iV…II"  },  {  "type": "THUMBNAIL",  "path": "/api/v1/media/snapshot/274-610/thumbnail/38…24.jpg?ttl=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?ttl=2592000",  "image": "iV...II"  },  {  "type": "THUMBNAIL",  "path": "/api/v1/media/snapshot/682-1164/best-8816/0...00.jpg?ttl=2592000",  "image": "i...II"  },  {  "type": "THUMBNAIL",  "path": "/api/v1/media/snapshot/682-1164/aligned-8816/0...72.jpg?ttl=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"  }  ]  }  } |
| --- |

### **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=2592000",  "image": "data:image/png;base64,iV...II"  },  {  "type": "THUMBNAIL",  "path": "/api/v1/media/snapshot/274-610/thumbnail/3824-1685973361368531712.jpg?ttl=2592000",  "image": "data:image/png;base64,iV...II"  },  {  "type": "THUMBNAIL",  "path": "/api/v1/media/snapshot/274-610/thumbnail/3824-1685973364548186624.jpg?ttl=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=2592000",  }  ],  "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"  }  ]  }  } |
| --- |