Event Alert Device Messages

tuya Event Alert Device Messages User Guide

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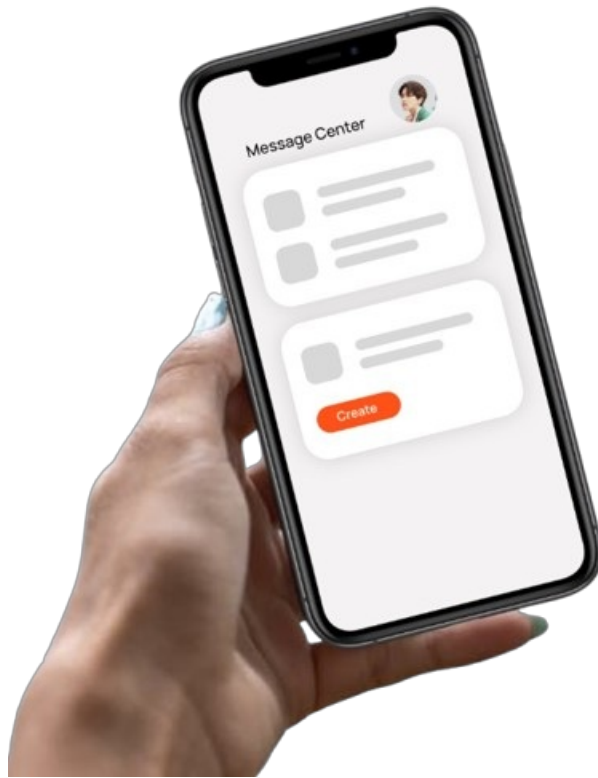
tuya Event Alert Device Messages

The camera sends alerts of events including motion, human shape, pet, and doorbell call to the cloud to get reflected in the message center on the mobile app. Event alerts support image or video message and incoming call prompt.

Development guide

Components
svc_api_ipc

API description

1. **Solution 1**

    Report alerts using DP 212. If the event type is included in the NOTIFICATION_NAME_E enum (in the file: tuya_ipc_notify.h), use the following API to report the alert.

    ```
    1  /**
    2   * @brief send an editable alarm to tuya cloud and APP
    3   *
    4   * @param[in] snap_buffer: address of current snapshot
    5   * @param[in] snap_size: size fo snapshot, in Byte
    6   * @param[in] name: editable event type, NOTIFICATION_NAME_E
    7   * @param[in] is_notify: send to message center if TRUE
    8   *
    9   * @return OPRT_OK on success. Others on error, please refer to tuya
    10  _error_code.h
    11   */
    12  OPERATE_RET tuya_ipc_notify_alarm(IN CONST CHAR_T *snap_buffer, IN C
    13  ONST UINT_T snap_size, IN CONST NOTIFICATION_NAME_E name, IN BOOL_T
    14  is_notify);
    ```

2. Solution 2

    If the event type is not included in the NOTIFICATION_NAME_E enum, check if it is included in the TUYA_ALARM_TYPE_E enum (in the file: tuya_ipc_event.h). If yes, you can use the following API to report the alert.

```
 1  /**
 2   * @brief notify an alarm not base on event
 3   *
 4   * @param alarm: TUYA_ALARM_T
 5   *
 6   * @return OPRT_OK on success. Others on error, please refer to tuya
 7  _error_code.h
 8   */
 9  OPERATE_RET tuya_ipc_trigger_alarm_without_event(IN TUYA_ALARM_T *al
10  arm);
```

Data structure

The data struct for alert details:

```
 1  typedef struct {
 2      INT_T type;                             ///< alarm type
 3      TUYA_ALARM_BITMAP_T wait_for;           ///< depends on other alarms
 4      INT_T is_notify;                        ///< notify to cloud
 5      TIME_T trigger_time;
 6      TIME_T upload_time;                     ///< 0 means immediately and
 7   -1 means wait until event ends
 8      BOOL_T valid;                           ///< 1 means needs to handle
 9   and 0 means had handled. You should set it to 1
10      BOOL_T force;                           ///< force upload or not, in
11  dependent with event like E_ALARM_COVER
12      INT_T resource_type;                    ///< refer to macro RESOURCE
13  _XXX
14      CHAR_T *extra_data;                     ///< extra data append to up
15  load info, json format: "aaa":3. NULL if not need
16      CHAR_T *pic_buf;
17      INT_T pic_size;
18      TUYA_ALARM_TEXT_T *context;             ///< text alarm info, can be
19  NULL
20      INT_T context_cnt;                      ///< TUYA_ALARM_TEXT_T count
21  , can be 0
22      NOTIFICATION_UNIT_T *media;             ///< media info, can be NULL
23      INT_T media_cnt;                        ///< NOTIFICATION_UNIT_T cou
24  nt, can be 0
25      CHAR_T dev_id[DEV_ID_LEN+1];            ///< device id
26      INT_T dev_chan_index;                   ///< device channel
27  } TUYA_ALARM_T;
```

The following sample code shows the initial values for reporting an image alert.

```
 1  TUYA_ALARM_T alarm_info = {0};
 2  alarm_info.type = ; // The event type.
 3  alarm_info.is_notify = ; // Message center on/off state.
 4  alarm_info.trigger_time = tal_time_get_posix(); // The current time.
 5  alarm_info.upload_time = 0;
 6  alarm_info.valid = 1;
 7  alarm_info.force = 1;
 8  alarm_info.resource_type = RESOURCE_PIC;
 9  alarm_info.pic_buf = ; // The address of the image buffer.
10  alarm_info.pic_size = ; // The size of the image buffer.
11  alarm_info.extra_data = NULL;
12  alarm_info.context = NULL;
13  alarm_info.context_cnt = 0;
14  alarm_info.media = NULL;
15  alarm_info.media_cnt = 0;
```

FAQs

Is there a limit on the frequency of alert reporting?

It is recommended to report an alert for every motion event. Take the debounce time into consideration based on motion detection

How do I deal with the API if motion detection is turned off on the mobile app?

If you use tuya_ipc_notify_alarm, set is_notify to FALSE. If you use tuya_ipc_trigger_alarm_without_event, set is_notify in TUYA_ALARM_T to FALSE.

What event types do you support

Events included in NOTIFICATION_NAME_E. Events included in TUYA_ALARM_TYPE_E. To add an event type, submit a service ticket

How do you secure image transfer

Images are encrypted and transmitted in an encrypted channel. Messages are transmitted in an encrypted channel.

What image file format is supported?

JPEG format

What is the image size limit

An image must be less than 307,120 bytes

How do I know if an alert is reported successfully?

In the log, check https for the result of delivering the image and DP 212 message. Go to the Tuya Developer Platform. Choose Product Device Management, and enter the device ID to check if DP 212 is reported successfully.

Why doesn't the message center display a successfully reported event

Submit a service ticket to request a check for the configuration of the respective event type in DP 212

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Documents / Resources

 tuya Event Alert Version : 20200812 Device Messages	**tuya Event Alert Device Messages** [pdf] User Guide Event 20Alert_TuyaOS_TuyaOS, Event Alert Device Messages, Alert Device Messages, Device Messages

References

- **User Manual**