**Event**

2016-9-28

**1 Foreword**

Our Device access protocol, the bottom is a binary protocol, refer to < iCVS2.0 Device Access Protocol . docx >, Above this protocol, a text protocol is hosted in a XML format. Among them, the format of the event report message is described in this document. The message is formatted as follows:

|  |
| --- |
| <?xml = "1.0" encoding= "Utf-8" $xmlesc  <m = "Event" >  <e **ID**= " E\_idl\_alertin **SubID**= "id" time = "1278945664" **Ignore**= "0" level = " Alarm">  <src **Type**= "$number" **ID**= "201012345678912345" >  <res **Type**= "IDL" **Idx**= "0" **Name**= "AlertIn1" **Desc**="" />  </Src>  <**DescAttrib1**= "" **Attrib2**= "" .../  </E>  </M> |
| Direction: Devices = Client / Platform |

Keyword meaning Description:

**ID**  Events ID , describe separately later.

**SubID**  Child ID of event , not all events have, populated according to the needs of the event.

**Time** Time that Events occured, standard UTC time.

**Ignore**  whether the client bubbles the hint, prompt if not ignore. different ID events have different values, describe separately followed by .

Level event level. the event values are different for different ID, as described later.

**SRC**  information about the source of the event.

**Type**  Event Source ID type, fixed for device: $number .

**ID**  Event Source ID . The device is the PUID for the device .

Res the corresponding resource information for the source of the event.

**Type** the resource type of the event.

**Idx** the resource index in which the event occurred.

**Name** the name of the resource where the event occurred.

**Desc** the description of the resource that the event occurred in.

**Desc**  description of the event. If there are no attributes, you must also populate an empty label. desc Label Total length (not including Name and Desc ) Property cannot be more than $number Bytes, otherwise no method is saved after the platform is escalated .

**Attrib1** Event Description Properties 1

**Attrib2**  Event Description Properties 2

To facilitate the description of the various keyword values for the event, we defined the following template.

**1.1 Event name ( event level)**

|  |  |
| --- | --- |
| **Event ID** | E\_xxx\_yyy ( events ID as string form) |
| **Event level** | can be divided into Notify, Alarm, Fault level , The following description no this item  Notify  Normal Alerts , no police handling required , platform just record.  Some notifications are notifications of status changes. , typically requires a read-only configuration matching corresponding query current status.  Alarm Alarm Event , must be handled by police . , If the alarm continues , require a timing trigger , if not necessarily better have a corresponding recovery event.  Fault Failure Event , system maintenance personnel need to know , and fix the failure in time, do not need to be timing trigger , preferably have a corresponding recovery event.  If the device restarts , device failure has not been restored , need to escalate the failure event again. |
| **Whether you can ignore** | indicates whether the client needs a pop-up prompt , General alerts and failures will prompt , notifications are not necessarily prompted |
| **Event description** | Description of all property values in the label. , There is a common description of all of the following events .:  1. all devices with positioning capabilities , when escalation events , should take the following location information :  GS positioning status When an event occurs (GNSS Status). 1 indicate valid positioning ; 0 represents an invalid and subsequent positional property.  La latitude of where the event occurred , range of Values [ -90.0,90.0], Latitude is positive , Latitude Negative  Lo longitude of where the event occurred , range of Values [ -180.0,180.0], Longitude is positive , West Negative  Be direction of device movement when event occurs , range of Values [0,360], Due to 0, Positive East ,  Sp the speed at which the device moves when an event occurs , units km/h. |
| **Supplementary notes** | Supplementary notes |

**2 All Resources (RES)**

**2.1 Resource Availability Changes (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_res\_usable changed |
| **Whether you can ignore** | yes |
| **Event description** | Usable 0 indicates that the availability becomes unavailable , 1 means becomes available by unavailable |
| **Supplementary notes** | The online and offline of the NVR IP channel will cause the event of corresponding IV,IA,PTZ Resource issue |

**2.2 Resource Description Changed (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_res\_descchanged |
| **Whether you can ignore** | Yes |
| **Event description** | Name changed resource name.  Desc changed resource description.  Enable whether the revised resources to enable. |
| **Supplementary notes** | This event is sent once to synchronize the display of other clients when the device's resource name, description, or the ability to change (typically caused by user settings) occurs. |

**3 Station (ST)**

**3.1 Emergency Alerts (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_emergentalert |
| **Whether you can ignore** | Can not |
| **Event description** | No |
| **Supplementary notes** | This event occurs when the user triggers an Emergency alert button |

**3.2 Unavailable Alerts (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_unusabletimealert |
| **Whether you can ignore** | Can not |
| **Event description** | No |
| **Supplementary notes** | This event occurs when the device is used outside of the available time range |

**3.3 Overspeed Alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_overspeed |
| **Whether you can ignore** | Can not |
| **Event description** | Limittype Speed Limit Type  Global Global Speed Limit  Region Zone speed Limit  RegionID Unique identification of a zone , if it is a global speed limit , is ""  Curspeed vehicle current speed, unit km/ hour  Upspeed maximum speed limit value, per kilometer / hours |
| **Supplementary notes** | This event occurs when the vehicle travels faster than the limit value ( qualify values include global, zone speed limit ) |

**3.4 Vehicle Launch Notification (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_startmove |
| **Whether you can ignore** | Yes |
| **Event description** | No |
| **Supplementary notes** | speed continues above a certain speed , generates this event |

**3.5 Vehicle STOP Notification (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_stopmove |
| **Whether you can ignore** | Is |
| **Event description** | No |
| **Supplementary notes** | speed continues below a certain speed , generates this event |

**3.6 Fatigue Driving Alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_fatiguedriving |
| **Whether you can ignore** | Whether |
| **Event description** | Contdrvtime integer String , duration of driving time , Unit minutes  Drvtimetoday integer String , cumulative driving time of the day , Unit minutes  Overconttime if the maximum duration of driving time is exceeded , 1 representation is , 0 No  Overtimetoday Cumulative total driving time over the same day , 1 representation is , 0 No |
| **Supplementary notes** | No |

**3.7 Customize button Notification (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_custommanualnotify |
| **Whether you can ignore** | Is |
| **Event description** | No Notification number , from 0 Start , increment in increments.  Alias Notification alias , through F\_st\_custommanualnotifyinfo Configure , For example " Vehicle Failure", |
| **Supplementary notes** | You can add an operator panel to our device. , There are some buttons on this panel , can represent some meaning . , reports such as vehicle failures. , after pressing this button , can send a directive to the device . , after the device receives this directive , escalate This event. |

**3.8 time error occurred (Fault)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_rtcfault |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | If our device finds a clock chip failure ( include unreasonable time , time, etc ) when , send this event once on line.. |

**3.9 Low Battery notification (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_batterylack |
| **Whether you can ignore** | Whether |
| **Event description** | No |

**3.10 Battery consumption Alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_batteryover |
| **Whether you can ignore** | Whether |
| **Event description** | No |

**3.11 Intelligent analysis Capability Failure (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_iafault |
| **Whether you can ignore** | Is |
| **Event description** | No |
| **Supplementary notes** | This notification is sent only to direct-attached clients. |

**3.12 Gravity sensor Alarm**

**3.12.1 Vehicle emergency brake alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_vehiclebrake |
| **Whether you can ignore** | Whether |
| **Event description** | Backaccel Back Acceleration , units 0.1g  Leftaccel left Acceleration , units 0.1g  Downaccel Vertical downward acceleration , units 0.1g |
| **Supplementary notes** | No |

**3.12.2 vehicle crash Alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_vehiclecollision |
| **Whether you can ignore** | Whether |
| **Event description** | Backaccel Back Acceleration , units 0.1g  Leftaccel left Acceleration , units 0.1g  Downaccel Vertical downward acceleration , units 0.1g |
| **Supplementary notes** | No |

**3.12.3 Vehicle Rollover Alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_vehiclerollover |
| **Whether you can ignore** | Whether |
| **Event description** | Backaccel Back Acceleration , units 0.1g  Leftaccel left Acceleration , units 0.1g, under normal conditions . 0g, Rollover Time , This value will be greater than 0, Greater Rollover angle , This value is larger.  Downaccel Vertical downward acceleration , units 0.1g, under normal conditions . 1g ( a gravity acceleration ). Rollover Time , This value will be less than 1g, Greater Rollover angle , This value is smaller. |
| **Supplementary notes** | No |

**3.12.4 Vehicle Rollover Alert (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_st\_vehiclerolloverwarning |
| **Whether you can ignore** | Is |
| **Event description** | Backaccel Back Acceleration , units 0.1g  Leftaccel left Acceleration , units 0.1g, under normal conditions 0g, Rollover Time , This value will be greater than 0, Greater Rollover angle , This value is larger.  Downaccel Vertical downward acceleration , units 0.1g, under normal conditions . 1g ( a gravity acceleration ). Rollover Time , This value will be less than 1g, Greater Rollover angle , This value is smaller. |
| **Supplementary notes** | No |

**4 Wireless Module (WM)**

**4.1 Data Flow limit status change (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_wm\_bytesstatuschanged |
| **Whether you can ignore** | Whether |
| **Event description** | Oldstatus Change Previous mode , Value Definition Reference F\_wm\_bytesstatus  NewStatus new mode after change , Value Definition Reference F\_wm\_bytesstatus  Byteslimit threshold value exceeded , units MB, If the threshold is not exceeded , This value is 0 |
| **Supplementary notes** | when the data flow status of a wireless module changes, , The device sends this notification to the client .. |

**4.2 Traffic Escalation (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_wm\_bytesreport |
| **Whether you can ignore** | Is |
| **Event description** | Bytes currently used traffic. Unit MB. |
| **Supplementary notes** | No |

**4.3 Traffic Alert (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_wm\_bytesalarm |
| **Whether you can ignore** | Whether |
| **Event description** | Threshold traffic alert is obvious. Unit MB.  Bytes currently used traffic. Unit MB. |
| **Supplementary notes** | No |

**4.4 Call status Change notification (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_wm\_callstatuschanged |
| **Whether you can ignore** | Is |
| **Event description** | Oldstatus Change Previous mode , Value Definition Reference F\_wm\_callstatus  NewStatus new mode after change , Value Definition Reference F\_wm\_callstatus  Fromno if NewStatus Yes Ringing, to have this parameter . indicate caller ID. |
| **Supplementary notes** | when the wireless module's call status changes. , The device sends this notification to the client .. |

**5 Enter Video (IV)**

**5.1 Signal Loss (Fault)**

|  |  |
| --- | --- |
| **Events ID** | E\_iv\_signallost |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | This event occurs when no video signal is detected |

**5.2 Signal Recovery (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_iv\_signalresumed |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | when no video signal is started , This event occurs when a video signal is detected. |

**5.3 Detect Move (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | e\_iv\_motiondetected |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | To turn on the move detection feature , when there is a motion detected in the video , generates this event once |

**5.4 Detect Occlusion (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | e\_iv\_coverdetected |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | such as turning on the blocking alarm feature , when the camera is detected to be covered , will produce this event this time . |

**5.5 license Plate Recognition Results (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_iv\_plr |
| **Whether you can ignore** | Is |
| **Event description** | Color License plate Color {Blue, Green, Yellow, black, White}  Tiltangle license plate Tilt Angle [ -360, $number]  Modeltype license plate type ( UTF8 Chinese string)  Licstr License plate contents ( UTF8 Chinese string)  Snapshot License plate snap Picture ( Base64 encoding JPG )  Path the path of the license plate capture picture, used inside the device. |
| **Supplementary notes** | This notification is sent only to direct-attached clients. |

**6 PTZ (PTZ)**

**6.1 PTZ lock status changes (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_ptz\_lockstatuschanged |
| **Whether you can ignore** | Is |
| **Event description** | Lock Lock , 1 represent lockdown , 0 means unlock  Level when unlocking is meaningless , when locked , indicates the level of the lock user. |
| **Supplementary notes** | The PTZ lock status has changed , generates this event once , New logged-on Client can use command to get status , to synchronize the state of the client |

**7 Enter a digital line ( alert Input ) (IDL)**

**7.1 Alert occurred (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_idl\_alertin |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | Enter a digital line to work in alert mode , The input level is the alarm level. , sends this event at intervals . |

**8 output Digital line ( alert output ) (ODL)**

**8.1 Output State Change (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_odl\_statuschanged |
| **Whether you can ignore** | Is |
| **Event description** | Connect Connected Status , values and meanings are as follows:  1 indicate alert output to connect  0 indicate alarm output disconnect  2 indicate alert output flicker |
| **Supplementary notes** | when the alert output status changes , generate this event once . newly logged-on client ( include platforms ) will send this event once , to synchronize the state of the client. |

**9 Storage (SG)**

**9.1 Low Disk space (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_sg\_diskspacelack |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | when there is not enough space to detect a disk ( below 800M) when , generates this event once , Alert Action. |

**9.2 Insufficient disk space recovery (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_sg\_diskspacelackrelease |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | when there is sufficient space to detect a disk. ( For example, greater than 800M) when , generates this event once |

**9.3 Disk Full (Fault)**

|  |  |
| --- | --- |
| **Events ID** | E\_sg\_diskspacefull |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | when a disk is detected with no remaining space , generates this event once |

**9.4 Disk Full Recovery (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_sg\_diskspacefullrelease |
| **Whether you can ignore** | Whether |
| **Event description** | No |
| **Supplementary notes** | when the disk space is detected again , generates this event once |

**9.5 load file system failed (Fault)**

|  |  |
| --- | --- |
| **Events ID** | E\_sg\_startfilesystemfailed |
| **Whether you can ignore** | Whether |
| **Event description** | Letter drive letter for disk that failed to load file system |
| **Supplementary notes** | if the file system fails to start ( may be the result of a disk format error or no formatted disk , is a floppy disk failure ), generates this event . , customer can attempt to initialize file system , and restart the device , attempt to recover from failure. |

**9.6 Disk Failure (Fault)**

|  |  |
| --- | --- |
| **Events ID** | E\_sg\_diskerror |
| **Whether you can ignore** | Whether |
| **Event description** | Letter drive letter for faulted disk |
| **Supplementary notes** | If the device does not have a disk detected , Disk hardware Failure , generates this event .. |

**Ten satellite positioning (GPS)**

**10.1 Idle Alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_gps\_lowspeed |
| **Whether you can ignore** | Whether |
| **Event description** | RegionID Unique identification of a zone  Curspeed Vehicle Current Speed , per kilometer / hours  Lowspeed Minimum speed limit , per kilometer / hours |
| **Supplementary notes** | when the vehicle is running at a speed below the limit value ( qualifying values include zones , section , monitoring point speed limit ) This event occurs when is |

**10.2 Enter electronic fence alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_gps\_inerailalarm |
| **Whether you can ignore** | Whether |
| **Event description** | RegionID Unique identification of a zone |
| **Supplementary notes** | when a vehicle enters a barred enclosure . , This alert will occur . |

**10.3 Leave electronic Fence alarm (Alarm)**

|  |  |
| --- | --- |
| **Events ID** | E\_gps\_outerailalarm |
| **Whether you can ignore** | Whether |
| **Event description** | RegionID Unique identification of a zone |
| **Supplementary notes** | when a vehicle is out of the fence that prohibits it from leaving. , This alert will occur . |

**10.4 Locate signal missing (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_gps\_signallost |
| **Whether you can ignore** | Is |
| **Event description** | No |
| **Supplementary notes** | when GPS when a signal becomes signaled. , This alert will occur . |

**10.5 Locate Signal Recovery (Notify)**

|  |  |
| --- | --- |
| **Events ID** | E\_gps\_signalresumed |
| **Whether you can ignore** | Is |
| **Event description** | No |
| **Supplementary notes** | when GPS when no signal becomes signaled. , This alert will occur . |

**One by one Other non-device-issued events ID definition**

events not to be emitted from the device ID Repeat, for events ID the resource name area of does the following convention. (Only the resource name area is not duplicated, and the device's event ID is not duplicated).

|  |  |
| --- | --- |
| Resource Name field | Description |
| VS | VTDU Schedule the event that was sent. |
| CUS | MPU the event that was sent. |
| PU | Events emitted by platform camouflage devices |