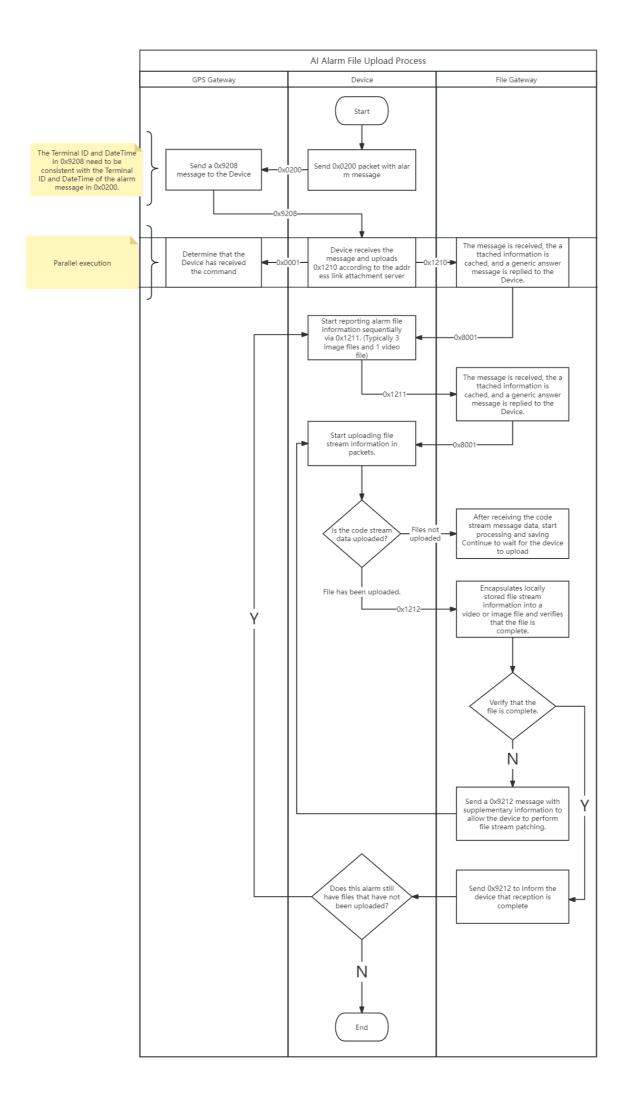
JSATL12-2017 Protocol for ADAS&DMS

Message structure

	Message header									
			Message body	properties						
identification	Message	15 ~14	13	12~10	9~0	Terminal	Message	Message	Check code	identification
	ID	Reserved	Subcontracting	Data encryption	Message body length	phone number	serial number	body	code	

This document will work better when combined with JSATL12-2017-DVR-en.pdf, JTT808-GPS-zh-en.pdf, and JSATL12-2017-DVR-en.pdf





1. Location information reporting(0x0200)

7e0200004d1148000040450003000000000004c01c303185efd094e5cf30064013700002405161828 26652f0000007a00010101000000001f006403185d09094e5aff24051618261404013132333435363 7240516182825000400547e

表 23 位置基本信息数据格式

Table 23 Location Basic Information Data Format

起始字节 Start byte	字段 Field	数据类型 type of data	描述及要求 Description and requirements
0	报警标志 Alarm sign	DWORD	报警标志位定义见表 24 The alarm flag is defined in Table 24

19

4	状态 status	DWORD	状态位定义见表 25 The status bits are defined in Table 25
8	纬度 latitude	DWORD	以度为单位的纬度值乘以 10 的 6 次方,精确到百万分之一度 The latitude value in degrees is multiplied by 10 by 6, accurate to parts per million
12	经度 longitude	DWORD	以度为单位的经度值乘以 10 的 6 次方,精确到百万分之一度 The longitude of the unit is multiplied by 10 of the 6th order, accurate to the parts per million
16	高程 Elevation	WORD	海拔高度,单位为米(m) Altitude in meters (m)
18	速度 speed	WORD	1/10km/h
20	方向 direction	WORD	0-359,正北为 0,顺时针 0-359, positive north 0, clockwise
21	时间 time	BCD[6]	YY-MM-DD-hh-mm-ss(GMT+8 时间,标准中之后涉及的时间均采用此时区) YY-MM-DD-hh-mm-ss (GMT + 8 time, after the standard involved And the time are used in this time zone)

```
"[bit14] Version identification": false,
           "[bit13]Whether to split the package": false,
           "[bit10~bit12]Data encryption method": 0,
           "[bit0~bit9]Message body length": 77
       },
       "[0000] Version": 0,
       "[114800004045]Terminal phone number": "114800004045",
       "[0003]Message serial number": 3,
       "[Message content]": {
           "[Alarm status]": {
Value": 0,
               "[bit0]sos": false,
               "[bit1]Over speed": false,
               "[bit7]Low battery": false,
               "[bit8]Power outage": false,
               "[bit14]Tired warning": false,
               "[bit15]Shake": false,
               "[bit16]Light sensor alarm": false,
               "[bit28]Displacement Alarm": false,
               "[bit29]Collision warning": false,
               "[bit30]Rollover warning": false
           },
           "[Status]": {
4981187.
               "[bit0]ACC status 0:0ff 1:0n": true,
               "[bit1]Positioning status 0:Invalid 1:Valid": true,
               "[bit2]South latitude and north latitude 0:North latitude 1:South
latitude": false,
               "[bit3]West longitude and east longitude 0:East longitude 1:West
longitude": false,
               "[bit10]oil circuit status 0: the vehicle oil circuit is normal;
1: The vehicle oil circuit is disconnected": false,
               "[bit11]Circuit status 0: Vehicle circuit is normal; 1: The
vehicle circuit is disconnected": false,
               "[bit23] Power on status 0:Power off 1:Power on": false
           }.
           "[03185EFD]Latitude": 51928829,
           "[094E5CF3]Longitude": 156130547,
           "[0064]Elevation": 100,
           "[0137]Speed": 311,
           "[0000]Direction": 0,
           "[240516182826]Date Time": 1715884106000,
           "[Location Additional Information]": [
               {
                  "[65]Additional information ID": 101,
                  "[2F]Additional information length": 47,
                  "[Additional information content]": {
                      "[0000007A]Alarm ID": 122,
                      "[00]Flag status": 0,
                      "[01]Alarm/event type": 1,
                      "[01]Alarm level": 1,
                      "[01]Fatigue degree": 1,
```

```
"[00000000]Reserved": 0,
                        "[1F]Speed": 31,
                        "[0064]Elevation": 100,
                        "[03185D09]Latitude": 51928329,
                        "[094E5AFF]Longitude": 156130047,
                        "[240516182614]Date Time": 1715883974000,
                        "[0401] Vehicle status": 1025,
                        "[Alarm identification number]": {
                            "[31323334353637]Terminal ID": "1234567",
---- 0x9208 Terminal ID
                            "[240516182825]Time": 1715884105000,
----» 0x9208 Time
                            "[00]Serial number": 0,
---- 0x9208 Serial number
                            "[04]Attachment number": 4,
---- 0x9208 Attachment number
                            "[00]Reserved": 0
---- 0x9208 Reserved
                        }
                    }
                }
            1
        },
        "[54]Check code": 84,
        "[7E]Stop Identification": 126
    }
]
```

Please note that the information you need to use in the 0x9208 command will be the information in this message.

2. Alarm attachment upload command(0x9208)

start byte	field	type of data	Description and requirements
0	Attachment server IP address length	BYTE	length k
1	Attachment server IP address	STRING	Server IP address
1+k	Attachment server port (TCP)	WORD	Server port number when using TCP transmission
3+k	Attachment server port (UDP)	WORD	Server port number when using UDP transmission
5+k	Alarm identification number	BYTE[16]	The definition of the alarm identification number is shown in Table 4-16
21 + k	Alarm number	BYTE[32]	The unique number assigned by the platform to the alarm
53 + k	reserve	BYTE[16]	

```
[
   {
       "[7E]Start Identification": 126,
       "[9208]Message ID": 37384,
       "[Message body properties]": {
           81,
           "[bit14]Version identification": false,
           "[bit13]Whether to split the package": false,
           "[bit10~bit12]Data encryption method": 0,
           "[bit0~bit9]Message body length": 81
       },
       "[0000]Version": 0,
       "[114800004045]Terminal phone number": "114800004045",
       "[0001]Message serial number": 1,
       "[Message content]": {
           "[OC]Attachment server IP address length": 12,
           "[191f167f1f66]Attachment server IP address": "192.168.2.66",
           "[13A4]Attachment server port": 5028,
           "[0000]Attachment server port UDP": 0,
           "[Alarm mark]": {
               "[31323334353637]Terminal ID": "1234567",
               "[240516182825]Time": 1715884105000,
               "[00]Serial number": 0,
               "[04]Attachment number": 4,
               "[00]Reserved": 0
           "[17158539370895100912854588265854]32-bit alarm number":
"17158539370895100912854588265854",
           "[000000000000000]Reserved": ""
       },
```

```
"[28]Check code": 40,
"[7E]Stop Identification": 126
}
```

It should be noted that most of the values used in the issued instructions come from the 0x200 packet. You can check the special markings in the 0x200 code block to get the correct value. To put it simply, take the value in the"[Alarm identification number]"

3. Terminal universal response(0x0001)

7e0001000511480000404500090001920800ca7e

表 4 终端通用应答消息体数据格式

Table 4 Terminal General Reply Message Body Data Forma	Table	4	Terminal	General	Reply	Message	Body	Data	Forma
--	-------	---	----------	---------	-------	---------	------	------	-------

起始字节 Start byte	字段 Field	数据类型 type of data	描述及要求 Description and requirements
0	应答流水号 Answer the serial number	WORD	对应的平台消息的流水号 The serial number of the corresponding platform message
2	应答 ID Answer ID	WORD	对应的平台消息的 ID The ID of the corresponding platform message
4	结果 result	BYTE	O: 成功/确认; 1: 失败; 2: 消息有误; 3: 不支持

14

	0: success / confirmation; 1: failure; 2: message is
	wrong; 3: not supported

```
"[114800004045]Terminal phone number": "114800004045",
    "[0009]Message serial number": 9,
    "[Message content]": {
        "[0001]response serial number": 1,
        "[9208]response id": 37384,
        "[00]response result": 0
    },
    "[CA]Check code": 202,
    "[7E]Stop Identification": 126
}
```

4. Alarm attachment information message(0x1210)

7e121001111114800004045000b313233343536373132333435363724051618282500040031373135
3835333933373038393531303039313238353435383832363538353400043130305f36355f363530
315f305f31373135383533393337303839353130303931323835343538383236353835342e706e67
000009123130305f36355f363530315f315f313731353835333933373038393531303039313238353
43538383236353835342e706e67000009123130305f36355f363530315f325f31373135383533933
37303839353130303931323835343538383236353835342e706e670000078e3130335f36355f3635
30315f335f31373135383533393337303839353130303931323835343538383236353835342e6269
6e00000100fa7e

start byte	field	Data length	Description and requirements
0	Terminal ID	BYTE [7]	7 bytes, composed of uppercase letters and numbers, this terminal ID is defined by the manufacturer, if the number of digits is insufficient, add "0x00"
7	Alarm identification number	BYTE[16]	the alarm identification number is shown in Table 4- 16
23	Alarm number	BYTE[32]	The unique number assigned by the platform to the alarm
55	information type	BYTE	0x00: normal alarm file information 0x01: Supplementary transmission of alarm file information
56	Number of attachments	BYTE	Number of attachments associated with the alarm
57	Attachment information list		See Table 4-2 4

```
[
{
    "[7E]Start Identification": 126,
    "[1210]Message ID": 4624,
```

```
"[Message body properties]": {
            "[0000000000000000000000010001]Message body properties Value":
273,
            "[bit14] Version identification": false,
            "[bit13]Whether to split the package": false,
            "[bit10~bit12]Data encryption method": 0,
            "[bit0~bit9]Message body length": 273
        },
        "[0000]version": 0,
        "[114800004045]Terminal phone number": "114800004045",
        "[000B]Message serial number": 11,
        "[Message content]": {
            "[01234567]TerminalID": "1234567",
            "[1234566fefefefef]AlarmFlag": "1234567",
            "[17158539370895100912854588265854]AlarmCode":
"17158539370895100912854588265854",
            "[00]InfoType": 0,
            "[04]AttachmentNumber": 4,
            "[AlarmAttachmentInfoList]": [
                {
                    "[31]FileNameLength": 49,
[00ff65f6500fff17158539370895100912854588265854efef]FileName":
"00_65_6501_0_17158539370895100912854588265854.png",
                    "[00000912]FileSize": 2322
                },
                {
                    "[31]FileNameLength": 49,
[00ff65f6500f0f17158539370895100912854588265854efef]FileName":
"00_65_6501_1_17158539370895100912854588265854.png",
                    "[00000912]FileSize": 2322
                },
                {
                    "[31]FileNameLength": 49,
[00ff65f6500f1f17158539370895100912854588265854efef]FileName":
"00_65_6501_2_17158539370895100912854588265854.png",
                    "[0000078E]FileSize": 1934
                },
                {
                    "[31]FileNameLength": 49,
[002f65f6500f2f17158539370895100912854588265854fbef]FileName":
"03_65_6501_3_17158539370895100912854588265854.bin",
                    "[00000100]FileSize": 256
                }
            ]
        },
        "[FA]Check code": 250,
        "[7E]Stop Identification": 126
    }
]
```

This message will inform you which files will be uploaded and what the general information of the files is.

5. Platform general response(0x8001)

7e8001000511480000404500090009000100d97e

消息 ID: 0x8001。

Message ID: 0x8001.

平台通用应答消息体数据格式见表 5。

Platform common response message body data format in Table 5.

表 5 平台通用应答消息体数据格式

Table 5 Platform Generic Response Message Body Data Format

起始字节 Start byte	字段 Field	数据类型 type of data	描述及要求 Description and requirements
0	应答流水号 Answer the serial number	WORD	对应的终端消息的流水号 The serial number of the corresponding terminal message
2	应答 ID Answer ID	WORD	对应的终端消息的 ID The ID of the corresponding terminal message
4	结果 result BYTE		O: 成功/确认; 1: 失败; 2: 消息有误; 3: 不支持; 4: 报警处理确认; O: success / confirmation; 1: failure; 2: message is wrong; 3: not supported; 4: alarm processing confirmation;

```
Γ
   {
       "[7E]Start Identification": 126,
       "[8001]Message ID": 32769,
       "[Message body properties]": {
          "[bit14] Version identification": false,
          "[bit13]Whether to split the package": false,
          "[bit10~bit12]Data encryption method": 0,
          "[bit0~bit9]Message body length": 5
       },
       "[0000] Version": 0,
       "[114800004045]Terminal phone number": "114800004045",
       "[0009]Message serial number": 9,
       "[Message content]": {
          "[0009]Response serial number": 9,
          "[0001]Response ID": 1,
          "[00]Result": 0
       },
       "[D9]Check code": 217,
```

```
"[7E]Stop Identification": 126
}
```

6. File information upload(0x1211)

7e12110037114800004045000c3130305f36355f363530315f305f313731353835333933373038393 53130303931323835343538383236353835342e706e670000000912227e

start byte	field	Data length	Description and requirements
0	file name length	BYTE	The length of the filename is I
1	file name	STRING	file name
1+1	file type	ВУТЕ	0x00: picture 0x01: Audio 0x02: video 0x03: text 0x04: other
2 + 1	File size	DWORD	currently uploaded file .

```
Ε
    {
        "[7E]Start Identification": 126,
        "[1211]Message ID": 4625,
        "[Message body properties]": {
            "[0000000000000000000000000110111]Message body properties Value":
55,
            "[bit14] Version identification": false,
            "[bit13]whether to split the package": false,
            "[bit10~bit12]Data encryption method": 0,
            "[bit0~bit9]Message body length": 55
        },
        "[0000]version": 0,
        "[114800004045]Terminal phone number": "114800004045",
        "[000C]Message serial number": 12,
        "[Message content]": {
            "[31]FileNameLength": 49,
            "[00ff65f6500fff17158539370895100912854588265854efef]FileName":
"00_65_6501_0_17158539370895100912854588265854.png",
            "[00]FileType": 0,
            "[00000912]FileSize": 2322
        },
        "[22]Check code": 34,
        "[7E]Stop Identification": 126
    }
]
```

This message will tell you the current file information to be transferred. After you confirm it is correct, reply 0x8001 to the device. After the device receives your reply of 0x8001, it will transfer the byte stream information of the current file to you, as follows

2024-05-16 10:29:03 INFO: [T7e64cbce: 114800004045: attachmentserver: SERVER <<< DEVICE_192.168.2.66]

3031636430305f36355f363530315f305f31373135383533393337303839353130303931323835343 538383236353835342e706e6700000000000000091289504e470d0a1a0a000000d49484452000002 80000001e00802000000bab34bb3000008d94944415478daeddb6d4ee33018855116339b9d5533f31 3d1faf5f55793c241470815d2c6a1ca9338cdc7e7df3f00c08b7dd8040020c00020c0008000038000 0300020c00020c0008300008300020c0009cf2ffeb1dd7b9f5b57b741fc3eb54bf7cb142dbff13ad5 50a1f4c56b878aaa1916e5f6474982bc3017859c31677ec13fbc662955a3fb7c67824c0e10a153ddb be8b7fba1af983ddb5ca87dc1d6977f1d1454687b9321c802dfbe7a77be0e48f4f3cd85df9d6f77a4 fbe3fc0c5de3c0cf0e3da1ffa678f6ea0d10027f56dbdc9a617a95f3d7fe74d0c07607a9f5c37ece6 019edeaf1e0ff04da6a017035c1f16b4b67b32d5d07a93e51b277fc74cbcc946870370620afab601e eae7c3ec77e36c0f9cb1fdacb4f4f8fcf0578e250e3eb66495e2ebf6831719dc35c34708729e8e2e7 6baf0187175577ec48cf9c01879fd8ba30c08f45fcb6cee1c97432d2e4df3377063cf126c88f0000c e4d413f3d737ba333e0cb023c7a0df8dc2e3eef56fd01b6bc6d7367c02702bcbe880003af9c7fbea4 b52b537ddd9b4a8e4f416ff914f4a1db905e7346b83e05bdbda6f9d8571601d8b57f0e674faf0df0c 4d1c382b7bd0fb87b6d3c3cd99dbe0f78f4bdb57e1ff0d30f4f75c73eba08c0b9f3e06462f53ed780 00140800100010600010600041800041800106000106000408001408001408001000106000106000418000418001060001060004080014080014080010001060001060004180004180010600010600040800140800140800100010600010600041800041800106000106000408001408001408001000106000106000418000418001060001060004080014080014080010001060001060004180004180010600010600040800140800140800100010600010600041800041800106000106000408001408001408001000106000106000418000418001060001060004080014080014080010001060001060004180004180010600010600040800140800140806d02001060001060004080014080010001060001060004180004180010600010600010600040800140800100010600010600041800041800106000106000106000408001408001000106000106000418000418001060001060001060004080014080010001060001060004180008001408001000106000106

2024-05-16 10:29:03 INFO: [T7e64cbce: 114800004045: attachmentserver: SERVER <<< DEVICE_192.168.2.66] 0004180004180010600010600010600040800140800100010600010600041800041800106000106000106000408001408001000106000106000418000418001060001060001060004080014080010001060001060004180004180010600010600010605b010004180004180010600010600040800140800100018001060001060004080014080010001060001060004180004180004180010600010600040800140818000418001060001060004080014080010001060001060004180004180004180010600010600040800106000418001480010600010600040800140800100010600010600010600041800041800106000106000408001408001000106000106000106000418000418001060001060004080014080010001060001060001060004180004180010600010600040800140800100010600010600010600041800041800106000106000408001408001000106000106000106000418000418001060001060004080014080010001060001060001060004180004180010600010600040800140800100010600010600010600041800041800106000106000408001408001000106000106000141800041800106000106000408001408001000106000106000106000418000418001060001060004080014080010001060001060001b609004080014080010001060001060004180004180010600010600040800140800140800100010600010600041800041800106000106000408001408001408001000106000106000418000418001060001060004080014080014080010001060001060004180004180010600010600040800140800140800100010600010600041800041800106000106000408001408001408001000106000106000418000418001060100010600010600041800041800106000106000603ec08f5fdf7e5bfcfde383f54bb45eb478b07ef2 ee73d603a907f574a9d1410d6db1fc41800b4defacba7bf2a175985ef64601ae37f168c9867edb7db 058bc4e7e772cc98a25cf9f1c1924bfcd1f04b8b6be733babe4544a809b639bd876798aba8b84012e 1eecbe6fc27fede231c796e30f80fbc4785780bfee7b1fa7485baf7bcb69c2b533e056f39e6e887cc b0ee5bc8e7158f46e80f389ebd141154f2ec0c0ef09707156f3f824adf476fff2275f032e0236713a f8fa00d73f846b585fedc827ba870e595c0606de622e7a3ac0c9b30dedc07fda19f0c481cf890087b d4fa638f2575f19d4d0047eabd3020cbc6980bb97fc5a33cc027c24c013354a3e2f9dbf514e0478fd e37fa3fd06b8bcbe4908928b7dddacfcea004f7cf8ed4480d7ebd59a36df1ee0a12db6f8792e804be a9befacf26bc0e1e9d3db0778ee3ee0a10984f016db707662cbe96372ab717dfc910f2adc6213f758 03bcbebee1ce6aface97df12600040800140800100010600010600041800041800041800106000106 0004080014080010001060001060004180004180004482600000106000106000418000418001060001060004080014080010001060001060001060004180004180010600010600040800140800100010680abfc03245029499e4677870000000049454e44ae426082 2024-05-16 10:29:04 INFO: [T7e64cbce: 114800004045: attachmentserver: SERVER <<< DEVICE_192.168.2.66] 7e12120037114800004045000d3130305f36355f363530315f305f313731353835333933373038393

53130303931323835343538383236353835342e706e670000000912207e

7. File upload completed message(0x1212)

In the above code block example, you can see that the device sends a separate message to inform us that the file has been uploaded, but it should be noted that The device may merge the 0x1212 message information into the file stream message, so please pay attention when you process file stream messages

7e12120037114800004045000d3130305f36355f363530315f305f313731353835333933373038393 53130303931323835343538383236353835342e706e670000000912207e

start byte	field	Data length	Description and requirements
0	file name length	ВУТЕ	1
1	file name	STRING	file name
1+1	file type	BYTE	0x00: picture 0x01: Audio 0x02: video 0x03: text 0x04: other
2 + 1	File size	DWORD	the size of currently uploaded file .

```
Γ
    {
        "[7E]Start Identification": 126,
        "[1212]Message ID": 4626,
        "[Message body properties]": {
            "[0000000000000000000000000110111]Message body properties value":
55,
            "[bit14] Version identification": false,
            "[bit13]Whether to split the package": false,
            "[bit10~bit12]Data encryption method": 0,
            "[bit0~bit9]Message body length": 55
        },
        "[0000]version": 0,
        "[114800004045]Terminal phone number": "114800004045",
        "[000D]Message serial number": 13,
        "[Message content]": {
            "[31]file name length": 49,
            "[00ff65f6500fff17158539370895100912854588265854efef]file name":
"00_65_6501_0_17158539370895100912854588265854.png",
            "[00]file type": 0,
            "[00000912]file size": 2322
        },
        "[20]Check code": 32,
        "[7E]Stop Identification": 126
    }
]
```

8. File upload completed message response(0x9212)

7e9212003511480000404500023130305f36355f363530315f305f313731353835333933373038393 53130303931323835343538383236353835342e706e67000000b67e

start byte	field	Data length	Description and requirements
0	file name length	BYTE	I
1	file name	STRING	file name
1+	file type	ВУТЕ	0x00: picture 0x01: Audio 0x02: video 0x03: text 0x04: other
2+1	upload result	BYTE	0x00: completed 0x01: Supplementary transmission is required
3+1	The number of retransmission packets	BYTE	The number of data packets that need to be retransmitted , and the value is 0 when there is no retransmission
4+1	Supplementary data packet list		See Table 4- 29

Table 4-29 Supplementary data packet information data structure

start byte	field	Data length	Description and requirements
0	data offset	DWORD	to be uploaded in the file
1	Data length	DWORD	The length of the data that needs to be supplemented

```
[
    {
        "[7E]Start Identification": 126,
        "[9212]Message ID": 37394,
        "[Message body properties]": {
            "[0000000000000000000000000110101]Message body properties Value":
53,
            "[bit14]Version identification": false,
            "[bit13]Whether to split the package": false,
            "[bit10~bit12]Data encryption method": 0,
            "[bit0~bit9]Message body length": 53
        },
        "[0000]Version": 0,
        "[114800004045]Terminal phone number": "114800004045",
        "[0002]Message serial number": 2,
        "[Message content]": {
            "[31]file name length": 49,
            "[00ff65f6500fff17158539370895100912854588265854efef]file name":
"00\_65\_6501\_0\_17158539370895100912854588265854.png",\\
            "[00]file type": 0,
            "[00]upload result": 0,
            "[00]supplement package number": 0,
```

```
"[supplementary packet list]": []
},
"[B6]Check code": 182,
"[7E]Stop Identification": 126
}
]
```