# MEITRACK® JTT808\_JTT 1078\_protocol

Models: MD600/MD833H/MD300

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# **Table of Contents**

1 Explain	4
2 Terms and Definitions	4
3 Abbreviation	5
4 Data Type	5
5 Transmission Rules	6
6 Message Format	6
6.1 Message Format Overview	6
6.2 Message Header	6
6.3 Message B50ody	7
6.4 Checksum	8
7 Command List	8
8 Command Details	8
8.1 Tracker General Response – 0 x0001	8
8.2 Platform General Response – 0x8001	8
8.3 Tracker Registration – 0x0100	8
8.4 Tracker Registration Response – 0x8100	9
8.5 Tracker Authentication – 0x0102	9
8.6 Set Tracker Parameter – 0x8103	9
8.7 Query Tracker Parameters – 0x8104	10
8.8 Query Specified Tracker Parameters – 0x8106	10
8.9 Query Tracker Parameters Response – 0x0104	10
8.10 Location Information Report – 0x0200	11
8.11 Alarm Attachments Upload Command – 0x9208	15
8.12 Alarm Attachments Information Message – 0x1210	15
8.13 File Information Upload – 0x1211	17
8.14 File Data Upload	17
8.15 File Upload Completed Message – 0x1212	17
8.16 File Upload Completed Message Response – 0x9212	18
8.17 Real-time Audio and Video Transmission Request – 0x9101	18
8.18 Real-time Audio and Video Transmission Control – 0x9102	19
8.19 Real-time Audio and Video Stream and Transparent Transmission Data	20
8.20 Query Resource List - 0x9205	22
8.21 Tracker Upload of Audio and Video Resource List - 0x1205	24
8.22 Platform Issued Remote Recording Playback Request - 0x9201	25
8.23 Remote Audio and Video Recording Playback Control Command Issued by Platform - 0x9202	27
8.24 File Upload Command - 0x9206	28
8.25 File Upload Completed Notice - 0x1206	29
8 26 File Unload Control - 0v9207	29

# 1 Explain

This document references JTT 808-2019 (Chinese National Transportation Ministry Standard 2019), TJSALT 12-2017 (Jiangsu Provincial Transportation Department Standard 2017), JTT 1078-2016 (Road Transport Vehicle Satellite Positioning System Video Communication Protocol), and related reference documents. Should any difficulties arise during review, please consult the Jiangsu Provincial Transportation Department Standard and the Chinese National Transportation Ministry Standard documents.

The Jiangsu Provincial Department of Transportation standard commands are supplementary commands developed based on the original standard commands of the Chinese National Ministry of Transportation. Therefore, if you have a certain understanding of the Chinese National Ministry of Transportation standard commands, you will be able to quickly understand the Jiangsu Provincial Department of Transportation standard commands after reading this document.

Starting from the 2019 edition, the Jiangsu Provincial Department of Transportation standards will support device numbers with extended digit lengths.

# 2 Terms and Definitions

Chinese Name	English Translation	Description
Data		Wireless communication link disconnected or temporarily
Communication	abnormal data communication link	suspended (e.g., during a call).
Link Abnormality		
Registration	register	The tracker sends a message to the platform indicating that
Registration	register	it is installed on a specific vehicle.
Logout	unregister	The tracker sends a message to the platform indicating it has
Logout	uillegistei	been removed from the installed vehicle.
Authentication	authentication	When the tracker connects to the platform, it sends a
Authentication	authentication	message to authenticate its identity.
<b>Location Reporting</b>	location reporting strategy	Periodic reporting, distance-based reporting, or a
Strategy	location reporting strategy	combination of both.
<b>Location Reporting</b>	location reporting program	Rules for determining the interval of periodic reporting
Scheme	location reporting program	based on relevant conditions.
		The tracker sends a location information report when
Corner Point	additional points report while	detecting a vehicle turn. Sampling frequency not less than 1
Retransmission	turning	Hz, vehicle azimuth change rate not less than 15°/s,
		sustained for at least 3 seconds.
Call Answering	answering strategy	Rules governing the tracker's automatic or manual
Strategy	answering strategy	answering of incoming calls.
		Event items are preset by the platform to the tracker and
Event Item	event item	consist of an event code and event title. When the driver
Lvent item	eventitem	encounters the corresponding event, they operate the
		tracker to trigger the event report, which is sent to the

		platform.
		The number of data bits transmitted per unit time during
Bit Rate	Code rate	data transmission, commonly expressed in kilobits per
		second (kbps).
		Represents the number of times per second the graphics
Frame Rate	Frame rate	processor can update frames, used to measure the display
		frame count, with the unit frames per second (FPS).

# 3 Abbreviation

Abbreviation	Chinese Full Name	English Full Name	
ADAS	Advanced Driver Assistance System	Advanced Driver Assistant System	
DSM	Driver Status Monitoring	Driving State Monitoring	
CAN	Controller Area Network	Controller Area Network	
APN	Access Point Name	access point name	
GZIP	A GNU free software file compression	GNUzip	
	program		
LCD	Liquid Crystal Display	liquid crystal display	
RSA	An asymmetric cryptographic algorithm	Ron Rivest、Adi Shamirh、Len Adleman	
ТСР	Transmission Control Protocol	transmission control protocol	
TTS	Text-to-Speech	text to speech	
UDP	User Datagram Protocol	user datagram protocol	
vss	Vehicle Speed Sensor	vehicle speed sensor	
AAC	Advanced Audio Coding	Advanced Audio Coding	
MPEG	Moving Picture Experts Group	Moving Pictures Experts Group	
RTP	Real-time Transport Protocol	Real-time Transport Protocol	
FTP	File Transfer Protocol	File Transfer Protocol	
UTF-8	Universal Code	8-bit Unicode Transformation Format	

# 4 Data Type

Data Type	Description and Requirements	
ВҮТЕ	Unsigned single-byte integer (byte, 8 bits)	
WORD	Unsigned double-byte integer (word, 16 bits)	
DWORD	Unsigned four-byte integer (double word, 32 bits)	
BYTE[n]	n bytes	
BCD[n]	8421 code, n bytes	
STRING	GBK encoding; if no data is present, leave blank	

### **5 Transmission Rules**

The protocol employs big-endian network byte order for transmitting words and double words.

The conventions are defined as follows:

Length	Explain	
Byte (BYTE)	Transmitted as a byte stream	
Word (WORD)	Transmit the high eight bits first, followed by the low eight bits	
Double Word	Transmit the highest 24 bits first, then the highest 16 bits, followed by the highest eight bits, and	
(DWORD)	finally the lowest eight bits	

# **6 Message Format**

# **6.1 Message Format Overview**

7E (Flag	<u>Message</u>	Message Body	Checksum	7E (Flag Byte)
Byte)	<u>Header</u>		CHECKSUIII	/E (Flag Byte)

The flag byte is represented by 0x7E. If 0x7E appears in the checksum, message header, or message body, it must be escaped. The escape rules are defined as follows:

Escape processing procedure	Describe
When sending a message	Calculate and fill checksum
When receiving a message	Verify checksum

Example: Sending a packet with content 0x30 0x7e 0x08 0x7d 0x55 results in the following encapsulated packet: 0x7e 0x30 0x7d 0x02 0x08 0x7d 0x01 0x55 0x7e

### 6.2 Message Header

Start byte	Field	Data Type	Description and Requirements
0	Message ID	WORD	_
2	Message body property	WORD	Message body property format structure
4	Protocol version number	ВҮТЕ	Protocol version, incremented with each major revision; initial version is 1
5	IMEI	BCD[N]	Default N=10; if the IMEI number is shorter, pad with digit 0 at the front
15	Message Serial Number	WORD	Accumulate cyclically starting from 0 in the order of transmission

	Message Packet	_	If the relevant flag bit in the Message Body Property indicates message
17	Encapsulation		segmentation processing, this field contains content; otherwise, this field
	Item		is omitted

					Mess	age	body	prope	rty						
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Retain	Version Identifier	Segme ntatio n		Encryp Method					Í	Message	Body Le	ength			
	The Version Identifier bit value is fixed at 1														

Data shall be encrypted as follows:

- Bits 10 to 12 are data encryption flag bits;
- 2. When all three bits are 0, the message body is not encrypted;
- 3. When bit 10 is set to 1, the message body is encrypted using the RSA algorithm;
- 4. Other bits are reserved.

Message segmentation shall be processed according to the following requirements:

- 1. When bit 13 in the Message Body Property is set to 1, it indicates the message body is a long message and shall be segmented for transmission; specific segmentation details are determined by the Message Packet Encapsulation Item;
- 2. If the 13th bit is 0, the message header does not contain the Message Packet Encapsulation Item field.

	Message Packet Encapsulation Item Content						
Start Byte	t Byte Field Data Type Description and Requirements						
0	Total Number of	WORD	Total number of packets after message				
0	Message Packets	WORD	segmentation				
2	Packet Sequence	WORD	Starting from 1				
2	Number	WORD	Starting from 1				

The version identifier shall be processed according to the following requirements:

- 1. When the 14th bit is 0, it indicates that the protocol version is from the year 2011, which does not include the version identification feature.
- 2. When the 14th bit is 1, it indicates that the protocol has introduced the version identification feature. The protocol version number follows the authentication code in the tracker authentication message. The initial version number after introducing this feature is 1, and each subsequent critical revision will increment the version number.

#### 6.3 Message Body

The format content of each distinct command message body is defined by the respective command; detailed requirements are provided in Command Details

#### 6.4 Checksum

The checksum calculation rule begins from the first byte of the message header, performing XOR with each subsequent byte up to the last byte of the message body; the checksum length is one byte.

# 7 Command List

### **8 Command Details**

# 8.1 Tracker General Response – 0 x0001

	Table 1: Tracker General Response Message Body Data Format					
Start	Field	Data Type	Description and Explanation			
byte						
0	Response Serial	WORD	Serial number of the corresponding platform message			
	Number					
2	Response ID	WORD	ID of the corresponding platform message			
4	Result	BYTE	0: Success/Confirm; 1: Failure; 2: Message Error; 3: Not Supported			

# 8.2 Platform General Response – 0x8001

	Table 2: Platform General Response Message Body Data Format					
Start byte	Field	Data Type	Description and Explanation			
0	Response Serial	WORD	Serial number of the corresponding tracker message			
	Number					
2	Response ID	WORD	Corresponding Tracker Message ID			
4	Result	BYTE	0: Success/Confirmation; 1: Failure; 2: Message Error;			
			3: Not Supported; 4: Alarm Processing Confirmation;			

# 8.3 Tracker Registration – 0x0100

	Table 3: Tracker Registration Message Body Data Format					
Start byte	Field	Data Type	Description and Explanation			
	0 Province ID		Indicates the province where the tracker-installed vehicle is located;			
0		WORD	0 is reserved and the platform assigns the default value. Province ID			
U			uses the first two digits of the six-digit administrative division code as			
			specified in GB/T2260.			
2	City and County	14/000	Indicates the city and county where the tracker-installed vehicle is			
2	ID	WORD	located; 0 is reserved and the platform assigns the default value. City			

			and County ID uses the last four digits of the six-digit administrative
			division code as specified in GB/T2260.
4	Manufacturer ID	BYTE[5]	5 bytes, terminal manufacturer code
			20 bytes, this terminal model is defined by the manufacturer; if the
9	Terminal Model	BYTE[20]	length is
			insufficient, it shall be padded with '0X00'.
	Torminal Madal		7 bytes, consisting of uppercase letters and digits; this terminal ID is
29	Terminal Model	BYTE[7]	defined by the manufacturer,
	ID		and if the length is insufficient, it shall be padded with '0X00'.
26	License plate	DVTE	License plate color, in accordance with JT/T415-2006, section 5.4.12.
36	color	BYTE	If unregistered, the value is 0.
	Makiala		A license plate color value of 0 indicates the vehicle VIN;
37	Vehicle	STRING	otherwise, it indicates the motor vehicle license plate issued by the
	identification		public security traffic management department.

# 8.4 Tracker Registration Response – 0x8100

	Table 4: Tracker Registration Response Message Body Data Format					
Start byte	Field	Data Type	Description and Explanation			
0	Response Serial Number	WORD	Serial number corresponding to the tracker registration message			
2	Result	вуте	0: Success; 1: Vehicle already registered; 2: Vehicle not found in database; 3: Tracker already registered; 4: Tracker not found in database			
3	Authentication Code	STRING	This field is present only if registration is successful			

# 8.5 Tracker Authentication – 0x0102

	Table 5: Tracker Authentication Message Body Data Format					
Start byte	Field Data Type Descripti		Description and Explanation			
0	Authentication	DVTE				
0	Code Length	BYTE	-			
1	Authentication	CTDING	Locath and to a			
1	Code	STRING	Length set to n			
1+n	Tracker IMEI	BYTE[15]	IMEI Number			
16+n	Software		Manufacturer-defined version number, zero-padded if length is			
	Version Number	BYTE[20]	insufficient			

# 8.6 Set Tracker Parameter – 0x8103

<b>Table 6: Set Tracker Paramete</b>	er Message Body Data Format
--------------------------------------	-----------------------------

Start byte	Field	Data Type	Description and Explanation
0	Total Number of	BYTE	
	Parameters		
1	Parameter Item List		See Table 7

	Table 7: Parameter Item List Format				
Start byte	Data Type	Description and Explanation			
Parameter	DWORD	See Table 8			
ID					
Parameter	ВҮТЕ				
Length					
Parameter		For multi-value parameters, multiple parameter items with the same ID are included in			
Value		the message			

Table 8: Definitions and Descriptions of Tracker Parameter Settings Items					
Start byte	Start byte Data Type Description and Explanation				
0x0029	DWORD	Default Time Reporting Interval, Unit: Seconds (s), >0			
0x0030	DWORD	Turning Point Retransmission Angle, <180			
0x0055	DWORD	Maximum Speed, Unit: Kilometers per Hour (km/h)			
0x0056	DWORD	Overspeed Duration, Unit: Seconds (s)			

# 8.7 Query Tracker Parameters – 0x8104

The message body for querying tracker parameters is empty.

# 8.8 Query Specified Tracker Parameters – 0x8106

Table 12: Message Body Data Format for Querying Specified Tracker Parameters				
Start byte	Field	Data Type	Description and Explanation	
0	Total Number of	BYTE	Total number of parameters: n	
	Parameters			
1	Parameter ID	BYTE[4*n]	Parameters are arranged sequentially, for example, "ParameterID1	
	List		ParameterID2 ParameterIDn" .	

# 8.9 Query Tracker Parameters Response – 0x0104

Table 1 3: Query Tracker Parameters Response Message Body Data Format				
Start byte Field Data Type Description and Explanation				
0	Response Serial	WORD	Serial number corresponding to the tracker parameter query message	
	Number			
2	Number of	BYTE		

	response	
	parameters	
3	Parameter Item	See Table 7
	List	

# 8.10 Location Information Report – 0x0200

Table 1 5: Location Report Message Structure Diagram		
Basic Location Information	List of Additional Location Information (may be absent)	

Table 1 6: Basic Location Information Data Format				
Start byte	Field	Data Type	Description and Requirements	
0	Alarm Flag	DWORD	Refer to Table 1 7	
4	Status	DWORD	Refer to Table 1 8	
8	Latitude	DWORD	Latitude value in degrees multiplied by 10^6, accurate to one millionth	
0	Latitude		of a degree	
12	Longitude	DWORD	Longitude value in degrees multiplied by 10 to the power of 6, precise to	
12	Longitude		one-millionth of a degree	
16	Elevation	WORD	Altitude, unit: meters (m)	
18	Speed	WORD	1/10km/h	
20	Direction	WORD	0-359, with 0 representing true north, clockwise direction	
21	T:	BCD[6]	YY-MM-DD-hh-mm-ss (GMT+8 Time; all times referenced in this	
	Time		standard hereafter use this time zone)	

	Table 1 7: Alarm Flag Bit Definitions				
Bit	Definition	Processing Instructions			
0	1: Emergency alarm, triggered upon activation of	Cleared upon receipt of acknowledgment			
	the alarm switch				
1	1: Overspeed alarm	Flag remains set until the alarm condition is cleared			
2	1: Fatigue driving	Flag remains set until the alarm condition is cleared			
3	1: Danger Warning	Cleared upon receipt of acknowledgment			
13	1: Overspeed Warning	Flag remains set until the alarm condition is cleared			
14	1: Fatigue Driving Warning	Flag remains set until the alarm condition is cleared			
18	1: Day Driving Overtime	Flag remains set until the alarm condition is cleared			
19	1: Parking Timeout	Flag remains set until the alarm condition is cleared			
20	1: Area Entry/Exit	Cleared upon receipt of acknowledgment			
21	1: Route Entry/Exit	Cleared upon receipt of acknowledgment			
22	1: Insufficient or Excessive Section Driving Time	Cleared upon receipt of acknowledgment			
23	1: Route Deviation Alarm	Flag remains set until the alarm condition is cleared			

Note: Location information must be reported immediately upon alarm or warning

Table 18: Status Bit Definitions				
Bit	Status			
0	0: ACC Off 1: ACC On			
1	0: Online Not Located 1: Located			
2	0: North Latitude 1: South Latitude			
3	0: East Longitude 1: West Longitude			
4	0: Operating Status 1: Out-of-Service Status			
5	0: Latitude and Longitude Not Encrypted by Security Plugin			
	1: Latitude and Longitude Encrypted by Security Plugin			
6-9	Retain			
10	0: Vehicle fuel circuit normal; 1: Vehicle fuel circuit disconnected			
11	0: Vehicle electrical circuit normal; 1: Vehicle electrical circuit disconnected			
12	0: Vehicle door unlocked; 1: Vehicle door locked			
13-31	Retain			

Note: Upon status change, location information must be reported immediately. The format of location additional information items is specified inTable26.

Table 1 9: Location Additional Information Item Format			
Field	Data Type	Description and Requirements	
Additional Information ID	BYTE	1-255	
Additional Information	BYTE		
Length			
Additional Information		Refer to Table 2 0	

Table 2 0: Additional Information Definition			
Additional	Additional Information	Description and Requirements	
Information ID	Length		
0x64		Advanced Driver Assistance Alarm Information Data Format; see Table	
		2 1	
0x65		Driver Status Monitoring System Alarm Information Data Format; see	
		Table 2 3	

Table 2 1: Advanced Driver Assistance Alarm Information Data Format			
0	0 Alarm ID DWORD Sequentially incremented starting from 0 according to the		Sequentially incremented starting from 0 according to the order of
			alarms, regardless of alarm type.
4	Flag Status	ВҮТЕ	0x00: Unavailable 0x01: Start Flag 0x02: End Flag
			This field applies only to alarms or events that include start and end
			flags. If the alarm or event type does not have start and end flags,

			this field is not applicable and should be set to 0x00.
5	Alarm/Event Type	BYTE	0x01: Forward Collision Alarm 0x02: Lane Departure Alarm
			0x03: Vehicle Proximity Alarm 0x04: Pedestrian Collision Alarm
			0x05: Frequent Lane Change Alarm 0x06: Road Sign Speeding
			Alarm
			0x07: Obstacle Alarm 0x08~0x0F: User Defined
			0x10: Road Sign Recognition Events; 0x11: Active Capture Events
			0x12~0x1F: User Defined
6	Alarm Level	BYTE	0x01: Level 1 Alarm; 0x02: Level 2 Alarm
7	Preceding Vehicle	BYTE	Unit: Km/h. Range: 0~250, valid only when the alarm type is 0x01 or
	Speed		0x02.
8	Distance to	BYTE	Unit: 100 ms, range: 0~100
	Preceding		Valid only when the alarm type is 0x01, 0x02, or 0x04.
	Vehicle/Pedestrian		
9	Deviation Type	BYTE	0x01: Left Deviation; 0x02: Right Deviation
			Valid only when the alarm type is 0x02.
10	Road Sign	BYTE	0x01: Speed Limit Sign; 0x02: Height Limit Sign
	Recognition Type		0x03: Weight Limit Sign. Valid only when the alarm type is 0x06 or
			0x10.
11	Road Sign	BYTE	Data of recognized road signs.
	Recognition Data		
12	Vehicle Speed	BYTE	Unit: Km/h. Range: 0 to 250.
13	Elevation	WORD	Altitude, unit: meters (m)
15	Latitude	DWORD	Latitude value in degrees multiplied by 10^6, precise to one-millionth
			of a degree.
19	Longitude	DWORD	Longitude value in degrees multiplied by 10^6, precise to
			one-millionth of a degree.
23	Date and Time	BCD[6]	YY-MM-DD-hh-mm-ss (GMT+8 Time)
29	Vehicle Status	WORD	Other vehicle statuses represented by bit flags:
			Bit0 ACC Status, 0: Turn Off, 1: Turn On
			Bit1 Left Turn Signal Status, 0: Turn Off, 1: Turn On
			Bit2 Right Turn Signal Status, 0: Turn Off, 1: Turn On
			Bit3 Wiper Status, 0: Turn Off, 1: Turn On
			Bit4 Brake Status, 0: Not Braking, 1: Braking
			Bit5 Card Insertion Status, 0: No Card Inserted, 1: Card Inserted
			Bit6~Bit9 Other
			Bit10 Location Status, 0: Online Not Located, 1: Located
			Bit11~Bit15 Other
31	Alarm Identification	BYTE[16]	See Table 2 2
	Number		

Table 2 2: Alarm Identification Number Format				
Start byte	Field	Data Type	Description and Explanation	
0	Terminal Model	BYTE[7]	7 bytes, consisting of uppercase letters and digits	
	ID			
7	Time	BCD[6]	YY-MM-DD-hh-mm-ss (GMT+8 Time)	
13	Index	BYTE	Index of alarms occurring at the same time, incrementing cyclically	
			from 0	
14	Attachment	BYTE	Indicates the number of attachments associated with the alarm	
	Count			
15	Reserved	BYTE		

	Table 2 3: Driver Status Monitoring System Alarm Information Data Format				
Start byte	Field	Data Type	Description and Explanation		
0	Alarm ID	DWORD	Sequentially incremented starting from 0 according to the order of		
			alarms, regardless of alarm type.		
4	Flag Status	BYTE	0x00: Unavailable		
			0x01: Start Flag		
			0x02: End Flag		
			This field applies only to alarms or events with start and end flags. If		
			the alarm or event type does not have start and end flags, this field is		
			not applicable and should be set to 0x00.		
5	Alarm/Event	BYTE	0x01: Fatigue Driving Alarm 0x02: Phone Call Alarm		
	Туре		0x03: Smoking Alarm 0x04: Distracted Driving Alarm		
			0x05: Driver Abnormal Alarm 0x06~0x0F: User Defined		
			0x10: Automated Capture Event 0x11: Driver Change Event		
			0x12~0x1F: User Defined		
6	Alarm Level	BYTE	0x01: Level 1 Alarm 0x02: Level 2 Alarm		
7	Drowsiness	BYTE	Range: 1 to 10. A higher value indicates a more severe drowsiness		
	Level		level; applicable only when the alarm type is 0x01.		
8	Reserved	BYTE[4]	Reserved		
12	Vehicle Speed	BYTE	Unit: Km/h. Range: 0 to 250.		
13	Elevation	WORD	Altitude, unit: meters (m)		
15	Latitude	DWORD	Latitude value in degrees multiplied by 10^6, precise to one-millionth		
			of a degree.		
19	Longitude	DWORD	Longitude value in degrees multiplied by 10^6, precise to		
			one-millionth of a degree.		
23	Date and Time	BCD[6]	YY-MM-DD-hh-mm-ss (GMT+8 Time)		
29	Vehicle Status	WORD	Other vehicle statuses represented by bit flags:		
			Bit0 ACC Status, 0: Turn Off, 1: Turn On		
			Bit1 Left Turn Signal Status, 0: Turn Off, 1: Turn On		
			Bit2 Right Turn Signal Status, 0: Turn Off, 1: Turn On		
			Bit3 Wiper Status, 0: Turn Off, 1: Turn On		
			Bit4 Brake Status, 0: Not Braking, 1: Braking		

			Bit5 Card Insertion Status, 0: No Card Inserted, 1: Card Inserted  Bit6~Bit9 Other  Bit10 Location Status, 0: Online Not Located, 1: Located  Bit11~Bit15 Other
31	Alarm Identification Number	BYTE[16]	See Table 2 2

Table 27: Extended Vehicle Signal Status Bits				
Bit	Definition			
2	1: Right Turn Signal			
3	1: Left Turn Signal			

Table 28: IO Status Bits			
Bit	Definition		
0	1: Deep Sleep State		
1	1: Sleep State		
2-15	Retain		

### 8.11 Alarm Attachments Upload Command - 0x9208

Message Type: Signaling Data Packet.

Upon receiving alarm/event information with attachments, the platform issues an attachment upload command to the tracker.

	Table 60: Alarm Attachments Upload Command Data Format				
Start byte	Field	Data Type	Description and Explanation		
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 used for TCP transmission		
3+k	Attachment Server Port (UDP)	WORD	Server port number used for UDP transmission		
5+k	Alarm Identification Number	BYTE[16]	Alarm Identification Number definition, see Table 22		
21+k	Alarm No.	BYTE[32]	Unique number assigned by the platform to the alarm		
53+k	Reserved	BYTE[16]			

Upon receiving the alarm attachments upload command from the platform, the tracker sends a General Response Message to the platform.

### 8.12 Alarm Attachments Information Message – 0x1210

Message Type: Signaling Data Packet.

The tracker connects to the attachment server according to the upload command and sends the Alarm Attachments Information Message to the server. The message body data format is specified in Table 61.

	Table 61: Alarm Attachments Information Message Data Format				
Start byte	Field	Data Type	Description and Explanation		
0	Terminal Model ID	BYTE[7]	7 bytes, consisting of uppercase letters and digits. This Terminal		
			Model ID is defined by the manufacturer. If the length is insufficient,		
			it shall be padded with "0x00".		
7	Alarm Identification Number	BYTE[16]	See Table 2 2		
23	Alarm No.	BYTE[32]	Unique number assigned by the platform to the alarm		
55	Information Type	BYTE	0x00: Normal Alarm File Information		
			0x01: Re-uploaded Alarm File Information		
56	Attachment Count	BYTE	Number of Attachments Associated with the Alarm		
57	Attachment Information List		Refer to Table 6 2		

Upon receiving the Alarm Attachments Information Message uploaded by the tracker, the Attachment Server shall send a General Response Message to the tracker. If the connection between the tracker and the Attachment Server is abnormally disconnected during the upload of alarm attachments, the Alarm Attachments Information Message must be resent upon reconnection. The attachments included are those files that were not uploaded and incomplete prior to disconnection.

Table 62: Alarm Attachments Information List			
Start byte	Field	Data Type	Description and Explanation
0	File Name	BYTE	Length k
	Length		
1	File Name	STRING	File Name String
1+k	File Size	DWORD	Current File Size

The file naming convention is as follows:

<File Type>\_<Channel Number>\_<Alarm Type>\_<Index>\_<Alarm No.>.<Extension>

The field definitions are as follows:

File Type: 00—Picture; 01—Audio; 02—Video; 03—Text; 04—Other.

Channel Number: 0 to 37 represent video channels as defined in Table 2 of the JT/T 1076 standard.

64 represents the ADAS module video channel.

65 represents the DSM module video channel.

If the attachment is unrelated to any channel, enter 0.

Alarm Type: a code composed of the peripheral ID and the corresponding module alarm type; for example, Forward Collision Alarm is represented as "6401".

Index: Used to differentiate file numbers of the same channel and type.

Alarm No.: Unique number assigned by the platform for the alarm.

File Extension: Picture files are jpg or png, audio files are wav, video files are 264, and text files are bin.

Upon receiving the alarm attachment information command reported by the tracker, the Attachment Server sends a General Response Message to the tracker.

### 8.13 File Information Upload - 0x1211

Message Type: Signaling Data Packet.

After the tracker sends the alarm attachment information command to the Attachment Server and receives a response, it transmits the attachment file information message to the Attachment Server.

	Table 63: Attachment File Information Message Data Format			
Start byte	Field	Data Type	Description and Explanation	
0	File Name	BYTE	File name length: 1	
	Length			
1	File Name	STRING	File Name	
1+1	File Type	BYTE	0x00: Picture	
			0x01: Audio	
			0x02: Video	
			0x03: Text	
			0x04: Others	
2+1	File Size	DWORD	Current size of the uploaded file.	

Upon receiving the file information upload command from the tracker, the Attachment Server sends a General Response Message to the tracker.

### 8.14 File Data Upload

Message Type: Stream Data Message.

After the tracker sends the File Information Upload command to the Attachment Server and receives a response, it transmits the file data to the Attachment Server. The payload packet format is defined in Table 64.

	Table 64: File Stream Payload Packet Format Definition				
Start byte	Field	Data Type	Description and Explanation		
0	Frame Header Identifier	DWORD	Fixed value: 0x30 0x31 0x63 0x64		
4	File Name	BYTE[50]	File Name		
54	Data Offset	DWORD	Current data offset of the transmitted file		
58	Data Length	DWORD	Length of the payload data		
62	Data Body	BYTE[n]	Default length is 64K; if the file is smaller than 64K, the actual length		
			is used		

The Attachment Server does not require a response upon receiving the file stream from the tracker.

### 8.15 File Upload Completed Message - 0x1212

Message Type: Signaling Data Packet.

When the tracker completes sending a file to the Attachment Server, it transmits a File Upload Completed Message to the Attachment Server.

Table 65: File Upload Completed Message Body Data Structure				
Start byte	Field	Data Type	Description and Explanation	

0	File Name	ВҮТЕ	1
	Length		
I	File Name	STRING	File Name
1+1	File Type	BYTE	0x00: Picture 0x01: Audio
			0x02: Video 0x03: Text
			0x04: Others
2+1	File Size	DWORD	Current size of the uploaded file.

#### 8.16 File Upload Completed Message Response - 0x9212

Message Type: Signaling Data Packet.

Upon receiving the File Upload Completed Message from the tracker, the Attachment Server sends a File Upload Completed Message Response to the tracker.

	Table 66: File Upload Completed Message Response Data Structure				
Start byte	Field	Data Type	Description and Explanation		
0	File Name Length	ВҮТЕ	1		
1	File Name	STRING	File Name		
1+1	File Type	ВҮТЕ	0x00: Picture 0x01: Audio 0x02: Video 0x03: Text 0x04: Others		
2+1	Upload Result	BYTE	0x00: Done 0x01: Retransmission Required		
3+1	Retransmission	ВҮТЕ	Number of packets requiring retransmission; this value is 0 if no		
	Packet Count		retransmission is necessary.		
4+1	List of Data Packets		Refer to Table 6 7		
	for Retransmission				

Table 67: Data Structure of Retransmission Data Packet Information			
Start byte	Field	Data Type	Description and Explanation
0	Data Offset	DWORD	Offset of Data to be Retransmitted within the File
1	Data Length	DWORD	Length of Data to be Retransmitted

If data requires retransmission, the tracker shall perform retransmission via file data upload and, upon completion, report the file upload completed message until the entire file data transmission is finalized.

Once all files have been transmitted, the tracker shall proactively disconnect from the attachment server.

#### 8.17 Real-time Audio and Video Transmission Request - 0x9101

Message Type: Signaling Data Packet.

The platform requests real-time audio and video transmission from the tracker device, including real-time video transmission, actively initiated two-way voice intercom, one-way monitoring, broadcasting voice to all trackers, and specific transparent transmission. The message body data format is detailed in Table 68. Upon receiving this message, the tracker responds with a General Response for the video terminal, then establishes a transmission link via the specified Server IP Address and Port, and thereafter transmits the corresponding audio and video stream data in accordance with the audio and video stream transmission protocol.

	Table 6-8: Real-time Audio and Video Transmission Request Data Format				
Start byte	Field	Data Type	Description and Requirements		
0	Server IP Address Length	ВҮТЕ	Length n		
1	Server IP Address	STRING	Real-time Video Server IP Address		
1 + n	Server Video Channel Listening Port Number (TCP)	WORD	Real-time Video Server TCP Port Number		
3 + n	Server Video Channel Listening Port Number (UDP)	WORD	Real-time Video Server UDP Port Number		
5 + n	Logical Channel Number	BYTE	Refer to Table 69		
6 + n	Data Type	ВУТЕ	0: Audio and Video, 1: Video, 2: Two-way Intercom, 3: Monitor, 4: Center Broadcast, 5: Transparent Transmission		
7 + n	Stream type	BYTE	0: Main stream, 1: Sub stream		

Table 6 9: Definition Table of Audio and Video Channels for Operational Vehicle Onboard Video Terminals				
Channel N	umber	Channel Name	Channel Type	Monitoring Area
1		Channel 1	Audio and Video / Video	Driver
2		Channel 2	Audio and Video / Video	Vehicle Front
3		Channel 3	Audio and Video / Video	Front Door
4		Channel 4	Audio and Video / Video	Front
				Compartment

Upon receiving a special alarm from the video terminal, the platform shall proactively issue this command without awaiting manual confirmation to initiate real-time audio and video transmission.

#### 8.18 Real-time Audio and Video Transmission Control – 0x9102

 ${\it Message Type: Signaling Data Packet}.$ 

Message Type: Signaling Data Packet.

The platform sends the real-time audio and video transmission control command to switch bitstreams, pause bitstream transmission, turn off audio and video transmission channels, etc. The message body data format is detailed in Table 70.

Table 70: Real-time Audio and Video Transmission Control Data Format			
Start	Field	Data Type	Description and Requirements

byte			
0	Logical Channel Number	BYTE	Refer to Table 69
1	Control Command	BYTE	The platform can control the device's real-time audio and video using this
			command:
			0: Turn Off Audio and Video Transmission command;
			1: Switch Bitstream (including pause and resume);
			2: Pause sending all streams on this channel;
			3: Resume sending streams as before the pause, consistent with the stream types
			prior to the pause;
			4: Turn Off Two-way Intercom
			0: Turn Off audio and video data related to this channel;
2		BYTE	1: Turn Off only the audio related to this channel, retaining the video related to this
	Turn Off Audio and		channel;
	Video Type		2: Turn Off only the video related to this channel, retaining the audio related to this
			channel.
			Switch the previously requested stream to the newly requested stream, ensuring
3		BYTE	the audio remains consistent with the stream prior to switching.
	Switch Stream Type		The newly requested stream is:
			0: Main stream;
			1: Sub stream

### 8.19 Real-time Audio and Video Stream and Transparent Transmission Data

Message Type: Stream Data Message.

The transmission of real-time audio and video stream data follows the RTP protocol, carried over UDP or TCP. The payload packet format extends the IETF RFC 3550 RTP definition by adding fields such as message sequence number, SIM card number, and audio and video channel number. The payload packet format is detailed in Table 72. The bits defined in the table are filled according to Big-endian Mode.

Table 71	Table 71: Definition of Payload Packet Format for Audio and Video Stream and Transparent Transmission Data			
		Transmission Pro	otocol	
Start byte	Start byte Field Data Type Description and Requirements			
0	Frame Header Identifier	DWORD	Fixed value: 0x30 0x31 0x63 0x64	
4	V	2 BITS	Fixed value: 2	
	Р	1 BIT	Fixed value: 0	
	Х	1 BIT	RTP header extension bit, fixed value: 0	
	СС	4 BITS	Fixed value: 1	
5	М	1 BIT	Flag bit indicating whether this is the boundary of a	

			complete data frame
	PT	7 BITS	Payload type, refer to Table 72
6	Packet Sequence Number	WORD	Initially 0; sequence number increments by 1 with each
			RTP data packet sent
8	SIM card number	BCD[10]	Tracker Device SIM card number
14	Logical Channel Number	ВҮТЕ	Refer to Table 69
			0000: Video I-frame;
15		4 BITS	0001: Video P-frame;
			0010: Video B-frame;
	Data Type		0011: Audio frame;
			0100: Transparent Transmission Data
			0000: Atomic packet, not fragmentable;
		4 BITS	0001: First packet in fragmentation processing;
	Fragmentation processing flag		0010: The last packet in sub-packet processing.
			0011: An intermediate packet in sub-packet processing
			Indicates the relative time of the current frame in this R
16	Timestamp	BYTE[8]	data packet, in milliseconds (ms). This field is omitted
			when the data type is 0100.
			The interval between this frame and the previous key
24	Last I Frame Interval	WORD	frame, in milliseconds (ms). This field is omitted when t
			data type is a non-video frame.
			(The interval between this frame and the previous fram
26	Last Frame Interval	WORD	in milliseconds
			ms). This field is omitted when the data type is a non-vio
			frame.
			Field
28	Data body length	WORD	Length of the subsequent data body, excluding this field
30	Data Body	BYTE[ n]	Audio and Video Data or Transparent Transmission Da
			length not exceeding 950 bytes.

Table 72:	Table 72: Audio and Video Encoding Type Definition Table			
Encoding	Name	Remark		
0	Retain			
1	G.721	Audio		
2	G.722	Audio		
3	G.723	Audio		
4	G.728	Audio		
5	G.729	Audio		
6	G.711A	Audio		
7	G.7I1U	Audio		

8	G.726	Audio
9	G.729A	Audio
10	DVI4_ 3	Audio
l1	DVI4_ 4	Audio
12	DVI48K	Audio
13	DVI4_ 16K	Audio
14	LPC	Audio
15	S16BE_ STEREO	Audio
16	S16BE_ MONO	Audio
17	MPEGAUDIO	Audio
18	LPCM	Audio
19	AAC	Audio
20	WMA9STD	Audio
21	HEAAC	Audio
22	PCM_ VOICE	Audio
23	PCM_ AUDIO	Audio
24	AACLC	Audio
25	MP3	Audio
26	ADPCMA	Audio
27	MP4 AUDIO	Audio
28	AMR	Audio
29~90	Retain	
91	Transparent Transmission	System
92 ~97	Retain	Video
98	H.264	Video
99	H.265	Video
100	AVS	Video
101	SV AC	Video
102 ~110		Retain
111 ~127		Other

# 8.20 Query Resource List - 0x9205

Message Type: Signaling Data Packet.

The platform queries the recording file list from the tracker based on combined conditions including audio and video type, channel number, alarm type, and start and end time. The message body data format is specified in Table 73.

	Table 73: Query Recording File List Data Format			
Start byte	Field	Data Type	Description and Requirements	
0	Logical Channel Number	ВҮТЕ	Refer to Table 69; 0 indicates all channels.	
1	Start Time	BCD[6]	YY-MM-DD-HH-MM-SS; all zeros indicate no start time condition.	
7	EndedTime	BCD[6]	YY-MM-DD-HH-MM-SS; all zeros indicate no end time condition.	
13	Alarm Flag	64BITS	bit0 to bit31: see Table 75; bit32 to bit63: see Table 74; All zeros indicate no alarm type condition.	
21	Audio and Video Resource Type	ВҮТЕ	0: Audio and Video, 1: Audio, 2: Video, 3: Video or Audio/Video	
22	Stream type	BYTE	0: All Bitstreams, 1: Main Stream, 2: Sub Stream	
23	Storage Device Type	ВҮТЕ	0: All Storage Devices, 1: Main Memory, 2: Disaster Recovery Memory	

	Table 74: Attachment Information Definition Table Extension		
Bit	Status	Description and Requirements	
0x14	4	Video-Related Alarm, DWORD, Bitwise Setting; Flag Definitions Refer to Table 75	
0x15	4	Video Loss Alarm Status, DWORD, Bitwise Setting; bits 0 to 31 correspond to logical channels 1 to 32 respectively; a bit set to 1 indicates video loss on the corresponding logical channel	
0x16	4	Video Blind Alarm Status, DWORD, Bitwise Setting; bits 0 to 31 correspond to logical channels 1 to 32 respectively; a bit set to 1 indicates video blind on the corresponding logical channel	
0x17	2	Memory fault alarm status, WORD, bitwise configuration: bits 0 to 11 correspond to main memories 1 to 12 respectively; bits 12 to 15 correspond to disaster recovery storage devices 1 to 4 respectively. A bit set to 1 indicates a fault in the corresponding memory.	
0x18	2	Detailed description of abnormal driving behavior alarm, WORD, definitions in Table 76.	

	Table 75: Definitions of video alarm flag bits.				
Bit	Status	Description and Requirements			
Bit	Definition	Process Description			
0	Video signal loss alarm	Flag remains set until the alarm condition is cleared			
1	Video signal obstruction alarm	Flag remains set until the alarm condition is cleared			
2	Store cell fault alarm	Flag remains set until the alarm condition is cleared			
3	Other video device fault alarm	Flag remains set until the alarm condition is cleared			
4	Overload alarm	Flag remains set until the alarm condition is cleared			
5	Abnormal driving behavior alarm	Flag remains set until the alarm condition is cleared			
6	Special alarm recording storage threshold reached alarm	Cleared upon receipt of acknowledgment			
7 ~ 31	Reserved				

	Table 76: Definition of Abnormal Driving Behavior Flag Bits			
Start byte	Field	Data Type	Description and Requirements	
0	Abnormal Driving Behavior	WORD	Bitwise settings: 0 indicates None, 1 indicates Present; bit0: Drowsiness; bit1: Calling; bit2: Smoking; bit3 to bit10: Reserved; bit11 to bit15: Other	
	Types			
2	Drowsiness Level	ВҮТЕ	Drowsiness Level is represented by values from 0 to 100, where higher values indicate a more severe level of drowsiness.	

# 8.21 Tracker Upload of Audio and Video Resource List - 0x1205

Message Type: Signaling Data Packet.

The tracker responds to the platform's Search command for the audio and video resource list by replying with the Tracker Upload of Audio and Video Resource List message. If the list is too large and requires segmented transmission, the segmentation mechanism defined in JT/T 808—2011 Section 4.4.3 shall be used. The platform shall respond to each individual segment with the Video Platform General Response. The Message Body Data Format is detailed in Table 77.

	Table 77: Tracker Upload of Audio and Video Resource List Data Format				
Start byte Field Data Type		Data Type	Description and Requirements		
0	Serial Number		Serial number corresponding to the Audio and Video Resource List Search command		
2	Total Number of Audio and Video Resources		No audio and video resources matching the criteria; set to 0		
6	Audio and Video Resource List		Refer to Table 78		

	Table 78: Tracker Upload of Audio and Video Resource List Format				
Start byte Field Data Type		Description and Requirements			
0	Logical Channel Number	ВҮТЕ	Refer to Table 69		
1	Start Time	BCD[6]	YY-MM-DD-HH-MM-SS		
7	EndedTime	BCD[6]	YY-MM-DD-HH-MM-SS		
13	Alarm Flag	64BITS	bit0 to bit31: see Table 75; bit32 to bit63: see Table 74; All zeros indicate no alarm type condition.		
21	Audio and Video Resource Type	ВҮТЕ	0: Audio and Video, 1: Audio, 2: Video		
22	Stream type	BYTE	1: Main stream, 2: Sub stream		
23	Storage Device Type	BYTE	1: Main memory, 2: Disaster recovery memory		
24	File Size	DWORD	Unit: Byte (BYTE)		

### 8.22 Platform Issued Remote Recording Playback Request - 0x9201

Message Type: Signaling Data Packet.

The platform requests audio and video recording playback from the tracker device. The tracker shall respond with command 0x1205 (Tracker Upload of Recording File List), then transmit recording data using the packet format defined in Table 18: Real-time Audio and Video Stream Data Transmission RTP Protocol Payload Packet Format. The message body data format is specified in Table 79.

# Table 79: Platform Issued Remote Recording Playback Request Data Format

Start byte	Field	Data Type	Description and Requirements
0	Server IP Address Length	ВҮТЕ	
			Length n
1	Server IP Address	STRING	Real-time Audio and Video Server IP Address
1 + n	Server Audio and Video Channel Monitoring Port Number	WORD	Real-time Audio and Video Server Port  Number; set to 0 if TCP transmission is not
	( TCP)		used
3 + n	Server Audio and Video Channel  Monitoring Port Number	WORD	Real-time Audio and Video Server Port  Number; set to 0 if UDP transmission is not  used
	( UDP)		
5 + n	Logical Channel Number	ВҮТЕ	Refer to Table 69
6 + n	Audio and Video Type	ВҮТЕ	0: Audio and Video, 1: Audio, 2: Video, 3: Video or Audio/Video
7 + n	Stream type	ВУТЕ	0: Main stream or sub stream; 1: Main stream; 2: Sub stream;
	, in the second		Set this field to 0 if the channel transmits audio only
8 + n	Storage Device Type	ВҮТЕ	20: Main memory or disaster recovery memory; 1: Main memory,
	,,,,		Disaster recovery memory
			0: Normal Playback;
9 + n		ВҮТЕ	1: Fast Forward Playback;
	Playback Mode		2: Key Frame Rewind Playback;
			3: Key Frame Playback;
			4: Single Frame Upload
			This field is valid when the playback mode is 1 or 2; otherwise, it shall be set to 0.
10 + n	Fast Forward or Rewind Multiplier	ВҮТЕ	0: Invalid;
	ascrofward of Newma Multiplier		1: 1x;
			2: 2x;
10 + n		ВҮТЕ	3: 4x;

	Fast Forward or Rewind Multiplier		4: 8x; 5: 16x;
11 + n	Start Time		YY-MM-DD-HH-MM-SS: When playback mode is 4, this field indicates the single frame upload time.
17 + n	EndedTime	, ,	YY-MM-DD-HH-MM-SS: A value of 0 indicates continuous playback. Playback: This field is invalid when playback mode is 4.

# 8.23 Remote Audio and Video Recording Playback Control Command Issued by Platform - 0x9202

Message Type: Signaling Data Packet.

During audio and video recording playback on the tracker device, the platform may issue playback control commands to manage the playback process. Message Body Data Format is specified in Table 80.

	Table 80: Data Format for Remote Video Playback Control Commands Issued by the Platform		
Start byte	Field	Data Type	Description and Requirements
0	Audio and Video Channel Number	ВҮТЕ	Refer to Table 69
			0: Start Playback;
1		ВҮТЕ	1: Pause Playback;
			2: Stop Playback;
	Playback Control		3: Fast Forward Playback;
			4: Key Frame Rewind Playback;
			5: Drag Playback;
			6: Key Frame Playback
			This field is valid when playback control is 3
			or 4; otherwise, it shall be set to 0.
2		ВҮТЕ	0: Invalid;
			1: 1x;
	Fast Forward or Rewind Multiplier		2: 2× speed;
			3: 4x;
			4: 8x;

			5: 16x;
3		BCD[6]	YY-MM-DD-HH-MM-SS, valid when playback
	Drag Playback Position		control is 5

# 8.24 File Upload Command - 0x9206

Message Type: Signaling Data Packet.

The platform issues a file upload command to the tracker. Upon receiving a General Response from the tracker, the file shall be uploaded to the specified path on the target FTP server via FTP. The message body data format is detailed in Table 81.

	Table 81: File Upload Command Data Format			
Start byte	Field	Data Type	Description and Requirements	
0	Server Address Length	вуте	Length k	
1	Server Address	STRING	FTP Server Address	
1 + k	Port	WORD	FTP Server Port	
3 + k	User Name Length	ВҮТЕ	Length I	
4 + k	User Name	STRING	FTP User Name	
4 + k + l	Password Length	ВҮТЕ	Length m	
5 + k + l	Password	STRING	FTP Password	
5 + k + l + m	File Upload Path Length	вуте	Length n	
6 + k + l + m	File Upload Path	STRING	File Upload Path	
6 + k + l + m + n	Logical Channel Number	ВҮТЕ	Refer to Table 69	
7 + k + l + m + n	Start Time	BCD[6]	YY-MM-DD-HH-MM-SS	
13 + k + l + m + n	EndedTime	BCD[6]	YY-MM-DD-HH-MM-SS	
			bit0 to bit31: see Table 75;	
19 + k + l + m + n		64BITS	bit32 to bit63: see Table 74;	
	Alarm Flag		All zeros indicate no alarm type condition.	
27 + k + l + m + n		ВҮТЕ	0: Audio and Video, 1: Audio, 2: Video, 3:	
	Audio and Video Resource Type		Video or Audio/Video	
28 + k + l + m + n	Stream type	ВҮТЕ	0: Main Stream or Sub Stream, 1: Main	
			Stream, 2: Sub Stream	
29 + k + l + m + n		ВҮТЕ	20: Main memory or disaster recovery	
	Storage Location		memory; 1: Main memory,	

			Disaster recovery memory
			Represented by bit positions:
30 + k + l + m + n		ВҮТЕ	bit0: WIFI; when set to 1, indicates
			downloads are permitted over Wi-Fi; bit1:
			LAN; when set to 1, indicates downloads are
	Task Execution Conditions		permitted over LAN connections; bit2:
			3G/4G; when set to 1, indicates downloads
			are permitted over 3G/4G connections;
			download

# 8.25 File Upload Completed Notice - 0x1206

Message Type: Signaling Data Packet.

After all files have been uploaded via FTP, the tracker reports this command to notify the platform. The message body data format is specified in Table 82.

	Table 82: File Upload Completed Notice Data Format			
	Start byte	Field	Data Type	Description and Requirements
0		Response Serial Number		Serial number corresponding to the platform file upload message
2			ВҮТЕ	0: Succeed;
		Result		1: Fail

# 8.26 File Upload Control - 0x9207

Message ID: 0x9207.

Message Type: Signaling Data Packet. The platform instructs the tracker to pause, resume, or cancel all files currently being transferred. The message body data format is specified in Table 83.

	Table 83: File Upload Control Data Format			
Start byte	Field	Data Type	Description and Requirements	
0	Response Serial Number		Serial number corresponding to the platform file upload message	
2	Upload Control	вуте	0: Pause; 1: Continue; 2: Cancel	