1



1. login and response example

1.1 login example

Command Type	Login
Original Data	24243F006A737274796336313030313233323030313730002001
	0C00000023949B5002080B0C0B0E2C308CEF0B0E399802000
	0B907BF000000000293E0D0A
Data Analysis	
2424	protocol head (upload from terminal to call center)
3F00	The length of protocol package (the package length is 63 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
2001	command type (login command)
0C000000	TRIP ID (trip id is 12)
23949B50	RTCTIME (2012-11-8 11:14:43)
02	GPS flag (connected with g-mouse and disable privacy function)
080B0C0B0E2C308CEF	GPS Data (see the following GPS data analysis for details)
0B0E3998020000B907BF	
00000000	VSTATE
00	New-Para-Flag (no parameter need to upload)
293E	CRC check sum
0D0A	protocol tail

ODOM	protocol tan
1.2 Login response example	
Command Type	Login response
Original Data	40402A0061336277617936313031313132393030323932001001 17000000FFFFFFFFFFFF7A290D0A
Data Analysis	
4040	protocol head (send from call center to terminal)
2A00	length of protocol package
61336277617936313031	device id (a3bway6101112900292)
31313239303032393200	
1001	command type (login response command)
17000000	Fixed package sequence number
FFFFFFF	IP address ("0xFFFFFFF" represents invalid IP address.)
FFFF	Port ("0xFFFF" represents invalid port.)
FFFF	Reserve field
7A29	CRC check sum
0D0A	protocol tail

2. Roll-call and response example

2.1 Roll-call example

Command Type	Roll-call
Original Data	40401E006133627761793631303131313239303032393200100267240D0A
Data Analysis	



4040	protocol head
1E00	length of protocol package
61336277617936313031	device id (a3bway6101112900292)
31313239303032393200	
1002	command type (Roll-call command)
6724	CRC check sum
0D0A	protocol tail

2.2 Roll-call response

Command Type	Roll-call response
Original Data	2424360061336277617936313031313132393030323932002002020A0B0C0419
	351E8BD60458B672180000000003000000002E70D0A
Data Analysis	
2424	protocol head
3600	length of protocol package
61336277617936313031	device id (a3bway6101112900292)
31313239303032393200	
2002	command type (Roll-call response command)
02	GPS flag (connected with g-mouse and disable privacy function)
0A0B0C0419351E8BD6	GPS Data (see the following GPS data analysis for details)
0458B672180000000003	
00000000	VSTATE
293E	CRC check sum
0D0A	protocol tail

3. Logout example

Command Type	Logout
Original Data	24243A0061336277617936313031313132393030323932002003E5
	E09D50020A0B0C05062D708AD60456B27218000000000300000
	00000DC0D0A
Data Analysis	
2424	protocol head
3A00	length of protocol package
61336277617936313031	device id (a3bway6101112900292)
31313239303032393200	
2003	command type (logout command)
E5E09D50	RTCTIME (2012-11-10 5:06:45)
02	GPS flag (connected with g-mouse and disable privacy function)
0A0B0C05062D708AD6	GPS Data (see the following GPS data analysis for details)
0456B272180000000003	
00000000	VSTATE
293E	CRC check sum



0D0A	protocol tail

4. Fixed upload example

Command Type	Fixed upload
Original Data	24249C006A737274796336313030313233323030313730002004
	0B000000B5030000DC929B50000000001020108210D210C2105
	210F210B2104211121100A01080B0C0B09110AEBEF0B787E97
	0200000E06CF000C806E444C3A00056E000C7F6E444C3D0005
	65000C806E444C38000571000C856F444C38000568000C846E4
	44C3A00056E1CFACD1BF9CD1CFACD1BFACC1BFACC0000
	000019100D0A
Data Analysis	
2424	protocol head
9C00	The length of protocol package (package length is 156 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
2004	command type (fixed upload command)
0B000000	trip id (trip id is 11)
B5030000	Fixed package sequence number (Fixed package sequence number is 949.)
DC929B50	RTCTIME (2012-11-8 11:09:16)
00000000	trip mileage (0)
01	condition flag (condition data exists)
02	GPS flag (connected with g-mouse and disable privacy function)
01	g-sensor flag (G-Sensor data exists)
08	number of uploaded PID type
210D 210C 2105 210F	8 kinds of PID types
210B 2104 2111 2110	
0A	length of each group of condition data package every 2 seconds
01	the number of GCG mixed package
080B0C0B09110AEBEF	GPS data (see the following GPS data analysis for details)
0B787E970200000E06CF	
000C806E444C3A00056E	5 groups of condition data every 2 seconds
000C7F6E444C3D000565	
000C806E444C38000571	
000C856F444C38000568	
000C846E444C3A00056E	
1CFACD	5 groups of G-Sensor data every 2 seconds
1BF9CD	
1CFACD	
1BFACC	
1BFACC	
00000000	VSTATE
1910	CRC check sum



0D0A	protocol tail

5. Vehicle supported PID types example

Command Type	Vehicle supported PID types
Original Data	242445006A737274796336313030313233323030313730002005
	0C000000BB03000069939B500D21042105210B210C210D210F
	211021112112211C211F21212123BF390D0A
Data Analysis	
2424	protocol head
4500	the length of protocol package (package length is 69 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
2005	command type (Vehicle supported PID types command)
0C000000	trip id (trip id is 12)
BB030000	Fixed package sequence number (Fixed package sequence number is 955.)
69939B50	RTCTIME (2012-11-8 11:11:37)
0D	total number of ECU supported PID types (supported 13 kinds of PID types)
2104 2105 210B 210C	ECU supported PID types
210D 210F	
2110 2111 2112 211C	
211F 2121 2123	
BF39	CRC check sum
0D0A	protocol tail

6. Upload freeze frame data stream example

Command Type	Upload freeze frame PID
Original Data	2424E90061336277617936313031313132393030323932002006040000001
	E00000033D69D50232102190021222103020001214F02000021040300FF2
	10504006A21060500FF21070500C0210C08001F40210D070065210E0900
	FF210F04008C21100A002328211103003321150D0038211F100001042121
	1000010E2124130080D521521A00485A212E030000212F0300FF2130070
	0002131100000002132140000002133070001213C15000190214216002EE0
	214317000000214413000000214503000F21470300FF2149030000214A030
	000214C03000E214D18000000214E18000000C9F70D0A
Data Analysis	
2424	protocol head
E900	length of protocol package
61336277617936313031	device id (a3bway6101112900292)
31313239303032393200	
2006	command type (Upload freeze frame data stream command)
04000000	Trip id (4)
1E000000	Fixed package sequence number (30)

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33D69D50	RTCTIME (2012-11-10 4:21:07)
23	Number of freeze frame data stream
2102 1900 2122	35groups of freeze frame data stream
2103 0200 01	Each group of freeze frame data stream structure is as following.
214F 0200 00	"PID type (2 bytes) + arithmetic number (2 bytes) + data (variable length)". (See
2104 0300 FF	PID definition for details.)
2105 0400 6A	
2106 0500 FF	
2107 0500 C0	
210C 0800 1F40	
210D 0700 65	
210E 0900 FF	
210F 0400 8C	
2110 0A00 2328	
2111 0300 33	
2115 0D00 38	
211F 1000 0104	
2121 1000 010E	
2124 1300 80D5	
2152 1A00 485A	
212E 0300 00	
212F 0300 FF	
2130 0700 00	
2131 1000 0000	
2132 1400 0000	
2133 0700 01	
213C 1500 0190	
2142 1600 2EE0	
2143 1700 0000	
2144 1300 0000	
2145 0300 0F	
2147 0300 FF	
2149 0300 00	7
214A 0300 00	
214C 0300 0E	
214D 1800 0000	
214E 1800 0000	
C9F7	CRC check sum
0D0A	protocol tail

7. Upload PID data stream info example

Command Type	Upload PID info
Original Data	242473006A737274796336313030313233323030313730002007
	0C000000BC0300006A939B5047000D210403003A2105040070



	210B07004C210C08000C7B210D070000210F04004421100A00
	0562211103000021120B0004211C0E0006211F100004C6212110
	000000212312000BD6FF850D0A
Data Analysis	
2424	protocol head
7300	the length of protocol package (package length is 115 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
2007	command type (Upload PID data stream info command)
0C000000	trip id (12)
BC030000	fixed package sequence number (956)
6A939B50	RTCTIME (2012-11-8 11:11:38)
4700	The length of PID data stream info. (The following PID data stream length is 71
	bytes.)
0D	total number of ECU supported PID types (supported 13 kinds of PID types)
2104 0300 3A	The 1st kind of PID data stream info. Its structure is "PID type (2 bytes) +
	arithmetic number (2 bytes) + data stream (variable length)". See the attached
	PID definition for details.
2105 0400 70	The 2nd kind of PID data stream info. (see the above description)
210B 0700 4C	The 3rd kind of PID data stream info. (see the above description)
210C 0800 0C7B	The 4th kind of PID data stream info. (see the above description)
210D 0700 00	The 5th kind of PID data stream info. (see the above description)
210F 0400 44	The 6th kind of PID data stream info. (see the above description)
2110 0A00 0562	The 7th kind of PID data stream info. (see the above description)
2111 0300 00	The 8th kind of PID data stream info. (see the above description)
2112 0B00 04	The 9th kind of PID data stream info. (see the above description)
211C 0E00 06	The 10th kind of PID data stream info. (see the above description)
211F 1000 04C6	The 11th kind of PID data stream info. (see the above description)
2121 1000 0000	The 12th kind of PID data stream info. (see the above description)
2123 1200 0BD6	The 13th kind of PID data stream info. (see the above description)
FF85	CRC check sum
0D0A	protocol tail

8. Upload STORE malfunction info example

Command Type	Upload STORE malfunction info
Original Data	24242B006A737274796336313030313233323030313730002008
	0C000000BE0300006A939B500053E60D0A
Data Analysis	
2424	protocol head
2B00	The length of protocol package (package length is 43 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
2008	command type (Upload STORE malfunction info)



0C000000	trip id (12)
BE030000	fixed package sequence number (958)
6A939B50	RTCTIME (2012-11-8 11:11:38)
00	0x00 represent that there is no malfunction.
53E6	CRC check sum
0D0A	protocol tail

9. Upload PENDING malfunction info

Command Type	Upload PENDING malfunction info
Original Data	24242B006A737274796336313030313233323030313730002009
	0C000000BD0300006A939B5000BE4E0D0A
Data Analysis	
2424	protocol head
2B00	The length of protocol package (package length is 43 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
2009	command type (Upload PENDING malfunction info)
0C000000	trip id (12)
BD030000	fixed package sequence number (957)
6A939B50	RTCTIME (2012-11-8 11:11:38)
00	0x00 represent that there is no malfunction.
BE4E	CRC check sum
0D0A	protocol tail

10. Upload alarm and Upload alarm elimination

10.1 Upload alarm

Command Type	Upload alarm
Original Data	24244E006A73727479633631303031323332303031373000200A
	0C000000E10300009D949B506A10000002080B0C0B102E363D
	F00B0AC999020E0D9301BF0400000004000000790078001686
	0D0A
Data Analysis	
2424	protocol head
4E00	The length of protocol package (package length is 78 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
200A	command type (Upload alarm)
0C000000	trip id (12)
E1030000	fixed package sequence number (993)
9D949B50	RTCTIME (2012-11-8 11:16:45)
6A100000	trip mileage (4202 m)
02	GPS flag (connected with g-mouse and disable privacy function)



080B0C0B102E363DF0	GPS Data (see the following GPS data analysis for details)
0B0AC999020E0D9301BF	
04000000	VSTATE (existed over-speed state)
04000000	Alarm identifier field (triggered over-speed alarm)
7900	Current value, 2 bytes (current speed is 121 km/h)
7800	Threshold value, 2 bytes (threshold value of over-speed is 120 km/h)
1686	CRC check sum
0D0A	protocol tail

10.2 Upload alarm elimination

Command Type	Upload alarm elimination
Original Data	24244E006A73727479633631303031323332303031373000200B
	0C0000000604000002969B50B644000002080B0C0B162BF2E2F
	10B4874A402980CCC01AF00000000040000006F007800FE6C
	0D0A
Data Analysis	
2424	protocol head
4E00	The length of protocol package (package length is 78 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
200B	command type (Upload alarm elimination)
0C000000	trip id (12)
06040000	fixed package sequence number (1030)
02969B50	RTCTIME (2012-11-8 11:22:42)
B6440000	trip mileage (17590 m)
02	GPS flag (connected with g-mouse and disable privacy function)
080B0C0B162BF2E2F1	GPS Data (see the following GPS data analysis for details)
0B4874A402980CCC01AF	
00000000	VSTATE (there is no any state.)
04000000	Alarm identifier field (eliminated over-speed alarm)
6F00	Current value, 2 bytes (current speed is 111 km/h)
7800	Threshold value, 2 bytes (threshold value of over-speed is 120 km/h)
FE6C	CRC check sum
0D0A	protocol tail

11. Trip Start and Trip End

11.1 Trip start

Command Type	Trip start
Original Data	242447006A73727479633631303031323332303031373000200C
	0C000000B903000069939B50983BC0130602080B0C0B0B25BC
	EAEF0B487E970200002306BF0000000084300D0A
Data Analysis	



2424	protocol head
4700	The length of protocol package (package length is 71 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
200C	command type (trip start command)
0C000000	trip id (12)
B9030000	fixed package sequence number (953)
69939B50	RTCTIME (2012-11-8 11:11:37)
983BC013	Vehicle Readness data
06	Supported ECU protocol type - CAN11500K
02	GPS flag (connected with g-mouse and disable privacy function)
080B0C0B0B25BCEAEF	GPS Data (see the following GPS data analysis for details)
0B487E970200002306BF	
00000000	VSTATE (there is no any state.)
8430	CRC check sum
0D0A	protocol tail

11.2 Trip end

Command Type	Trip end
Original Data	24244A006A73727479633631303031323332303031373000200D
	0B000000B8030000E6929B50000000000000000002080B0C0B0
	91BF2EAEF0B607E970200000E06CF00000000D81D0D0A
Data Analysis	
2424	protocol head
4A00	The length of protocol package (package length is 74 bytes.)
6A737274796336313030	device id (jsrtyc6100123200170)
31323332303031373000	
200D	command type (trip end command)
0B000000	trip id (11)
B8030000	fixed package sequence number (952)
E6929B50	RTCTIME (2012-11-8 11:09:26)
00000000	Total trip mileage is 0 m.
00000000	Total trip fuel consumption is 0 l.
02	GPS flag (connected with g-mouse and disable privacy function)
080B0C0B091BF2EAEF	GPS Data (see the following GPS data analysis for details)
0B607E970200000E06CF	
00000000	VSTATE (there is no any state.)
D81D	CRC check sum
0D0A	protocol tail

12. Special data field analysis example

12.1 GPS Data example



Data Field	GPS Data (19 bytes)
Original Data	080B0C0B091BF2EAEF0B607E970200000E06CF
Data Analysis	
080B0C	Date (08/11/2012)
0B091B	Time (11:09:27)
F2EAEF0B	Latitude (55.631285 °)
607E9702	Longitude (12.078533 °)
0000	Speed (0 km/h)
0E06	Direction (155.0 °)
CF	GPS state word (east longitude/north latitude/3D locate/12 satellites)