报文格式：



报文日记：

2016-12-07 00:00:17,881 INFO ------------------【设备上传通讯——位置信息数据上传】---------------

2016-12-07 00:00:17,881 INFO ------------50000034---报文：aa5000003436005b000282821612070000175f64057800801b00113204432310064500113204442310064500113204442310064600ff067a76071c27ffff767536170000000000000000000000000108000000000101ffff0063050000ffff0000000051aa-------------------

2016-12-07 00:00:17,881 INFO ------------设备：50000034------------

2016-12-07 00:00:17,881 INFO <50000034>数据帧：8282

2016-12-07 00:00:17,881 INFO <50000034>系统时间：161207000017

2016-12-07 00:00:17,881 INFO <50000034>系统时间Date：Wed Dec 07 00:00:17 CST 2016

2016-12-07 00:00:17,881 INFO <50000034>【行程数据参数记录】上次行程结束时间：20161206235947

2016-12-07 00:00:17,881 INFO <50000034>发动机水温：5f->95

2016-12-07 00:00:17,896 INFO <50000034>车辆速度：64->100

2016-12-07 00:00:17,896 INFO <50000034>发动机工作转数：0578->1400

2016-12-07 00:00:17,896 INFO <50000034>按键报警了！

2016-12-07 00:00:17,896 INFO <50000034>ECU通信故障报警标识：false

2016-12-07 00:00:17,896 INFO <50000034>定位成功1 失败0:1

2016-12-07 00:00:17,896 INFO <50000034>GPS数据格式:0-无卫星数据 1-有卫星数据:0

2016-12-07 00:00:17,896 INFO <50000034>经度：0-东经 1-西经:0

2016-12-07 00:00:17,896 INFO <50000034>纬度：0-北纬 1-南纬:0

2016-12-07 00:00:17,896 INFO <50000034>GPS数据长度:27

2016-12-07 00:00:17,896 INFO <50000034>GPS速度：km/h:0

2016-12-07 00:00:17,912 INFO <50000034>经度:11320443->113°20.443'

2016-12-07 00:00:17,912 INFO <50000034>纬度:23100645->23°10.0645'

2016-12-07 00:00:17,912 INFO <50000034>GPS速度：km/h:0

2016-12-07 00:00:17,912 INFO <50000034>经度:11320444->113°20.444'

2016-12-07 00:00:17,912 INFO <50000034>纬度:23100645->23°10.0645'

2016-12-07 00:00:17,912 INFO <50000034>GPS速度：km/h:0

2016-12-07 00:00:17,912 INFO <50000034>经度:11320444->113°20.444'

2016-12-07 00:00:17,912 INFO <50000034>纬度:23100646->23°10.0646'

2016-12-07 00:00:17,912 INFO <50000034>方向角:255

2016-12-07 00:00:17,912 INFO <50000034>【行程数据参数】行使距离(10米):7a76>31350

2016-12-07 00:00:17,912 INFO <50000034>【行程数据参数】行使油耗(10mL):071c>1820

2016-12-07 00:00:17,912 INFO ----------【电子围栏预警】设备：50000034---经度：113.340717---纬度：23.167742---gps时间:Tue Dec 06 23:59:57 CST 2016

2016-12-07 00:00:17,927 INFO <50000034>从位置信息中抽取数据保存【驾驶记录成功】：CarGSPTrack [gspTrackId=148104001792774rs7, obdSn=50000034, longitude=113°20.443', latitude=23°10.0645', directionAngle=255, gpsSpeed=0, obdSpeed=100, high=, gspTrackTime=Tue Dec 06 23:59:57 CST 2016]

2016-12-07 00:00:17,927 INFO <50000034>位置信息插入成功（GPS数据）！

2016-12-07 00:00:17,927 INFO ----------【电子围栏预警】设备：50000034---经度：113.340733---纬度：23.167742---gps时间:Wed Dec 07 00:00:07 CST 2016

2016-12-07 00:00:17,927 INFO <50000034>从位置信息中抽取数据保存【驾驶记录成功】：CarGSPTrack [gspTrackId=1481040017927u257u, obdSn=50000034, longitude=113°20.444', latitude=23°10.0645', directionAngle=255, gpsSpeed=0, obdSpeed=100, high=, gspTrackTime=Wed Dec 07 00:00:07 CST 2016]

2016-12-07 00:00:17,927 INFO <50000034>位置信息插入成功（GPS数据）！

2016-12-07 00:00:17,927 INFO ----------【电子围栏预警】设备：50000034---经度：113.340733---纬度：23.167743---gps时间:Wed Dec 07 00:00:17 CST 2016

2016-12-07 00:00:17,927 INFO <50000034>从位置信息中抽取数据保存【驾驶记录成功】：CarGSPTrack [gspTrackId=1481040017927rocb9, obdSn=50000034, longitude=113°20.444', latitude=23°10.0646', directionAngle=255, gpsSpeed=0, obdSpeed=100, high=, gspTrackTime=Wed Dec 07 00:00:17 CST 2016]

2016-12-07 00:00:17,943 INFO <50000034>位置信息插入成功（GPS数据）！

2016-12-07 00:00:17,943 INFO <50000034>---存在测试字段---

2016-12-07 00:00:17,943 INFO <50000034>---存在测试字段---长度：27->39

2016-12-07 00:00:17,943 INFO <50000034>---存在测试字段---数据：ffff767536170000000000000000000000000108000000000101ffff0063050000ffff00000000

报文解析：

aa 50 00 00 34 36 00 5b 00 02 82 82 16 12 07 00 00 17 5f 64 05 78 00 80 1b 00 11 32 04 43 23 10 06 45 00 11 32 04 44 23 10 06 45 00 11 32 04 44 23 10 06 46 00 ff 06 7a 76 07 1c 27 ff ff 76 75 36 17 00 00 00 00 00 00 00 00 00 00 00 00 01 08 00 00 00 00 01 01 ff ff 00 63 05 00 00 ff ff 00 00 00 00 51 aa

备注:报文都是以16进制字符传输,1个byte等于2个字符。

起始符-1:aa

消息属性

设备ID-4：50 00 00 34

流水号-1：36

消息体长-2：00 5b

消息体-N：00 02 82 82 16 12 07 00 00 17 5f 64 05 78 00 80 1b 00 11 32 04 43 23 10 06 45 00 11 32 04 44 23 10 06 45 00 11 32 04 44 23 10 06 46 00 ff 06 7a 76 07 1c 27 ff ff 76 75 36 17 00 00 00 00 00 00 00 00 00 00 00 00 01 08 00 00 00 00 01 01 ff ff 00 63 05 00 00 ff ff 00 00 00 00

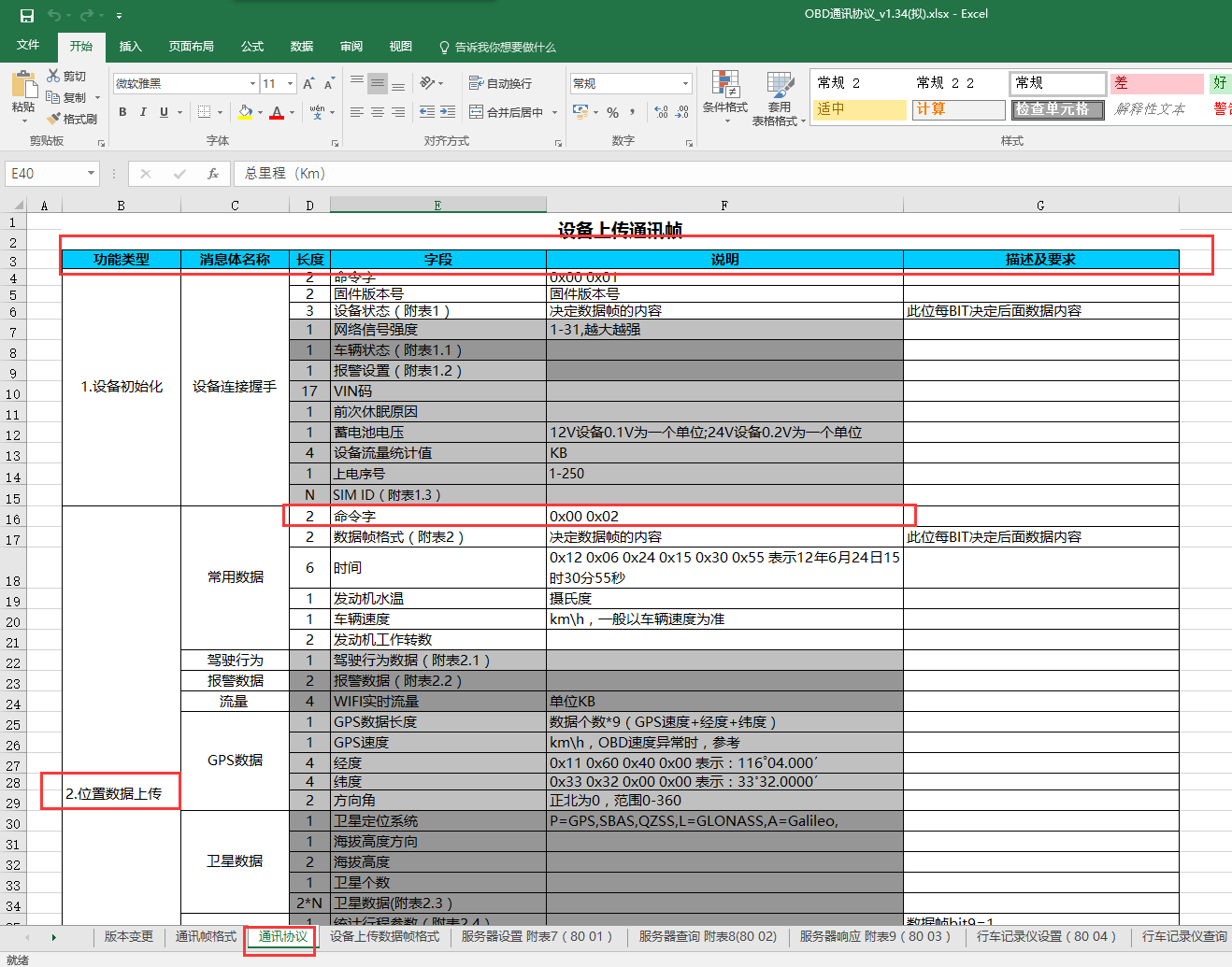
校验码-1：51

结束符-1：aa

消息体解析

消息体-N：00 02 82 82 16 12 07 00 00 17 5f 64 05 78 00 80 1b 00 11 32 04 43 23 10 06 45 00 11 32 04 44 23 10 06 45 00 11 32 04 44 23 10 06 46 00 ff 06 7a 76 07 1c 27 ff ff 76 75 36 17 00 00 00 00 00 00 00 00 00 00 00 00 01 08 00 00 00 00 01 01 ff ff 00 63 05 00 00 ff ff 00 00 00 00

消息体的前2个byte是命令字:00 02,根据命令字可以确定是哪一种类型报文。

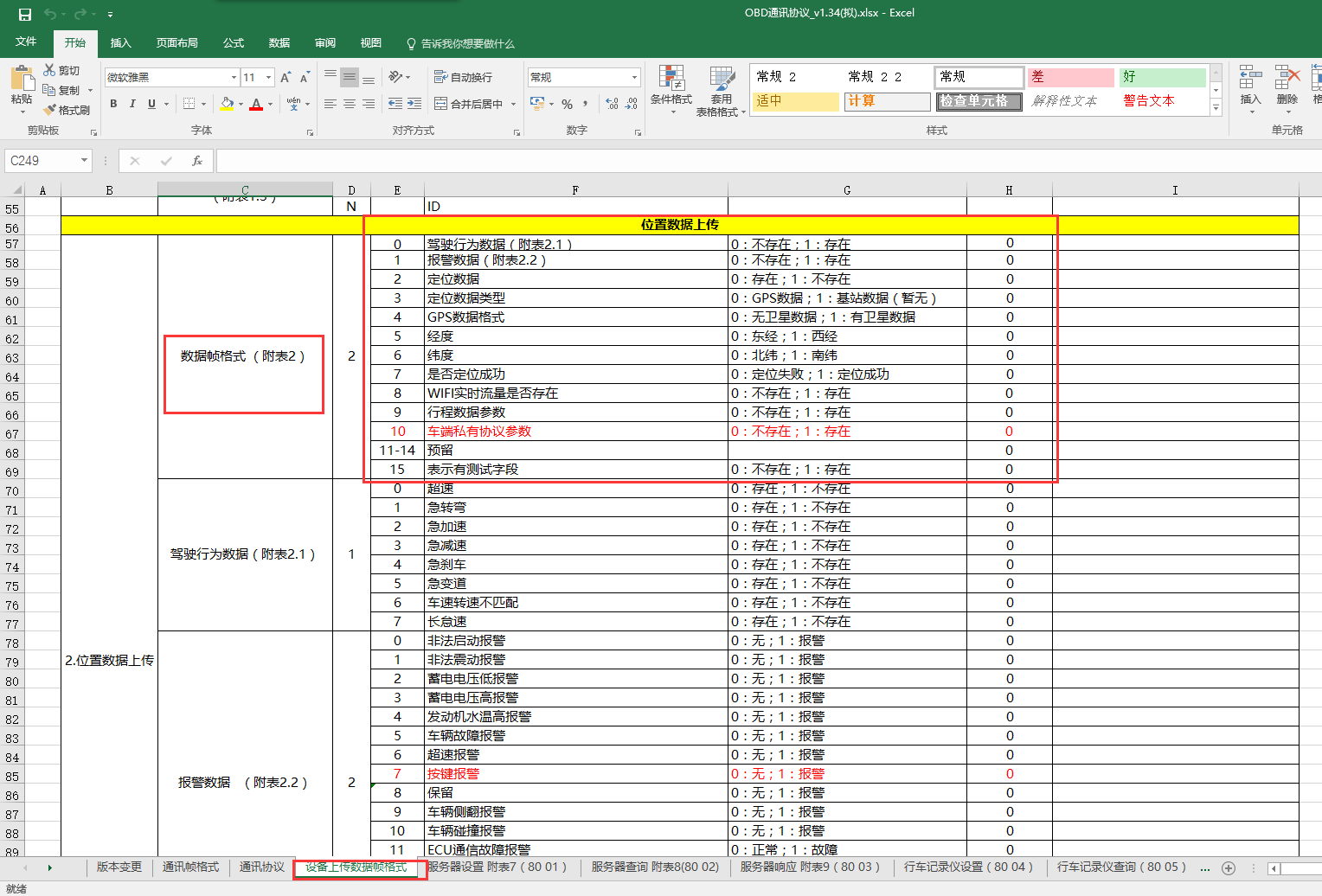


数据帧格式,决定数据帧内容:82 82

8282对应的二进制是

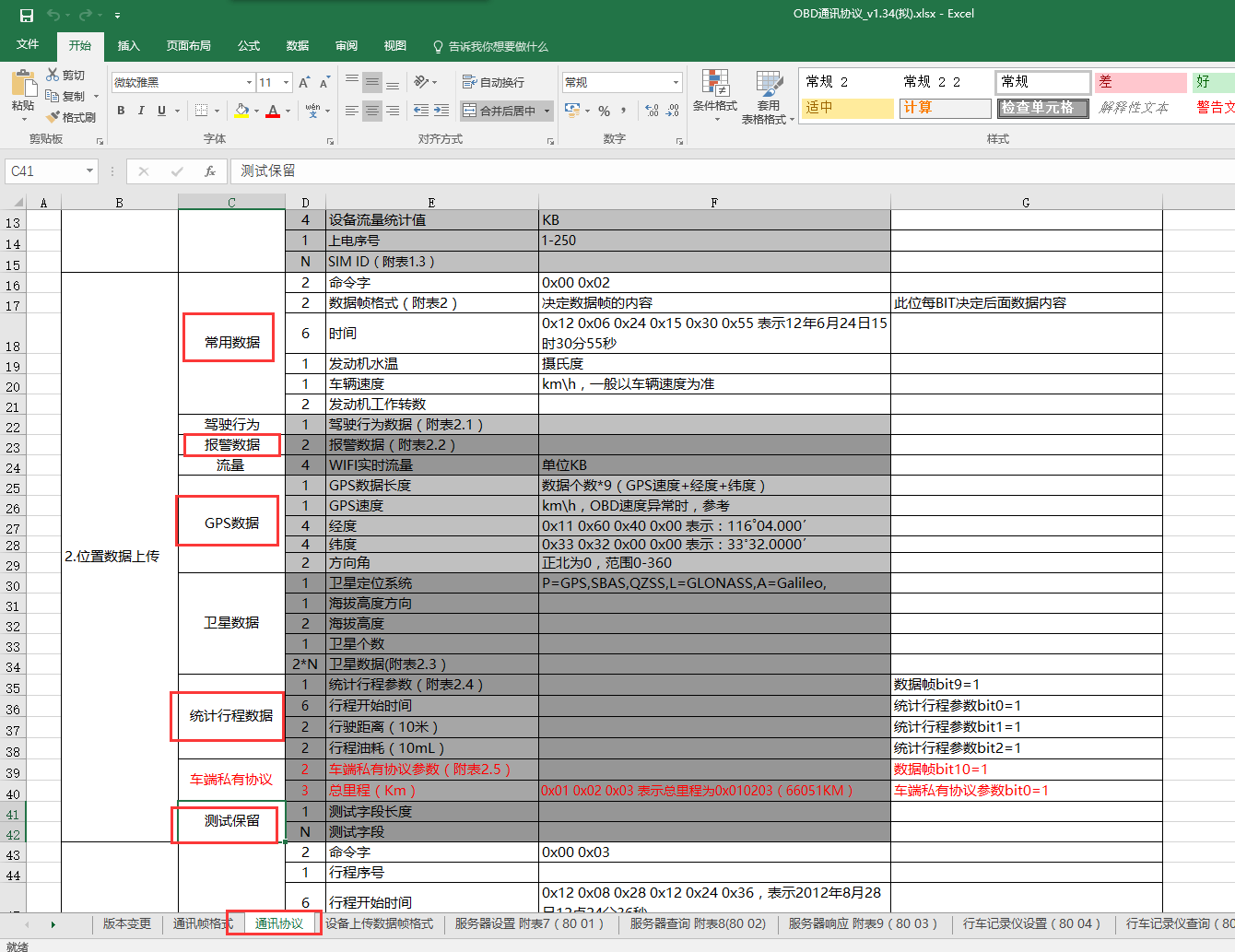
[0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 1]

对应附表二



本次位置信息报文传的数据有：

1-报警数据； 2-定位数据；3-GPS数据格式；7-是否定位成功； 9-行程数据参数； 15-标示有测试字段。（其中2,3,7是组合字段，以标示位置相关信息）所以解析报文有



其中常用数据是必须传的。

00 02, 82 82, 16 12 07 00 00 17, 5f, 64, 05 78, 00 80, 1b, 00 11 32 04 43 23 10 06 45, 00 11 32 04 44 23 10 06 45， 00 11 32 04 44 23 10 06 46， 00 ff， 06， 7a 76， 07 1c， 27， ff ff 76 75 36 17 00 00 00 00 00 00 00 00 00 00 00 00 01 08 00 00 00 00 01 01 ff ff 00 63 05 00 00 ff ff 00 00 00 00

对应byte位解析--

00 02 :消息体

82 82 :数据帧格式

16 12 07 00 00 17 :时间

5f :发动机水温

64 :车辆速度

05 78 :发动机工作转数

00 80 :报警数据

GPS数据--

1b: GPS数据长度 27即是传了3个位置信息

00 11 32 04 43 23 10 06 45, 00 11 32 04 44 23 10 06 45， 00 11 32 04 44 23 10 06 46，

00 ff :方向角

统计行程数据--

06 :统计行程参数,对应二进制 [0, 1, 1, 0, 0, 0, 0, 0]

7a 76 ：行使距离

07 1c ：行使油耗

测试保留--

27 ：测试字段长度

测试字段：

ffff767536170000000000000000000000000108000000000101ffff0063050000ffff00000000