软件问题沟通记录单1

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| **项目名称** | 遥测数据解析软件 | | **项目标识** | SJJSJX$X |
| **问题名称** | 软件飞行地图功能-程控状态指示灯更新顺序与界面顺序不一致 | | **问题标识** | R1\_SJJSJX$X\_1 |
| **报告人** | 张玉凤 | | **报告日期** | 2021.05.26 |
| **关联的**  **测试用例** | **测试用例章节号** | | **测试用例名称** | **测试用例标识** |
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| **问题类别** | ■程序错误□文档错误□设计错误□其它错误 | | | |
| **问题级别** | □致命（一级）□严重（二级）■一般（三级）□轻微（四级） | | | |
| **软件版本** | V1.0 | | | |
| **问题**  **概要描述** | 软件飞行地图功能-程控状态指示灯更新顺序与界面顺序不一致 | | | |
| **问题**  **详细描述** | **问题描述：**  **1、使用支持UDP组播发送的网络调试工具向软件每隔10ms发送被测方提供的飞控测试数据（飞控参数.bin)， 查看主界面飞行地图比炸线、飞行管道、起点、落点、飞控参数（飞行总时间、纬度、经度等）及下方程控状态更新情况。**  **2、根据软件显示，程控状态指示灯更新顺序如下（数字标记每个阶段名称）：**    但使用被测方提供的测试数据进行测试，程控状态指示灯的更新顺序如下：  **③—④—②—⑦—⑤—⑥­—⑧**  测试过程中使用被测方提供的测试数据，**①**代表的起飞指示灯一直未亮，**②~⑧**的指示灯亮的顺序与软件界面显示不一致。  **违背规则：**  该问题违背飞行地图解析功能实现与需求不一致原则。  **造成影响：**  无法判断软件飞行地图解析功能实现正确性。 | | | |
| **修改建议** | 修改软件或文档，确保软件飞行地图解析结果与需求一致性。 | | | |
| **沟通意见** | **□**确认 | □　修改 | | |
| □　不修改　　原因分析：  1、起飞的判断是系统判决数据（安控数据）的总飞行时间大于1秒点亮，只发飞控数据无法点亮“起飞”  2、请确认数据中程控状态数据顺序的正确性 | | |
| □　暂不修改　原因分析： | | |
| **□**取消 | 原因分析： | | |
| 签字：　　　　　　　　　　　　　　年　月　日 | | | |

软件问题沟通记录单2-取消

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| **项目名称** | 遥测数据解析软件 | | **项目标识** | SJJSJX$X |
| **问题名称** | 自主安控数据-系统判决状态数据-触点状态信息解析结果与测试数据不一致 | | **问题标识** | R1\_SJJSJX$X\_2 |
| **报告人** | 张玉凤 | | **报告日期** | 2021.05.26 |
| **关联的**  **测试用例** | **测试用例章节号** | | **测试用例名称** | **测试用例标识** |
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| **问题类别** | ■程序错误□文档错误□设计错误□其它错误 | | | |
| **问题级别** | □致命（一级）□严重（二级）■一般（三级）□轻微（四级） | | | |
| **软件版本** | V1.0 | | | |
| **问题**  **概要描述** | 自主安控数据CAN帧解析数据中，系统判决状态数据的触点状态信息内容解析结果与测试数据不一致。 | | | |
| **问题**  **详细描述** | **问题描述：**  1、**使用被测方提供的测试数据，提取包含完整系统判决状态数据帧的UDP数据（原始数据），如下：**   |  | | --- | | AA 00 55 77 00 B4 04 A6 00 0C EF 4F 46 01 01 D7 04 A8 01 E2 DE 01 00 15 B4 B6 04 A8 02 3E 74 50 03 13 A3 DD 04 A8 03 00 00 01 00 00 00 00 04 A8 04 00 00 00 00 00 00 00 04 A8 05 00 00 00 00 38 CB B4 04 A8 06 C2 03 D7 D0 42 2F 33 04 A8 07 66 BE 11 1B 05 BB 2C 02 A6 00 0F 46 01 60 01 BB 2C 04 A8 08 BC 81 BA 18 A3 0C BB 02 A8 01 73 50 03 13 11 B4 B6 04 A8 09 E4 08 1F C1 72 44 B3 02 A8 02 3E A1 DD 00 00 00 00 04 A8 0A 3C 4F C9 E6 3D CA 00 02 A8 03 00 00 00 00 00 00 00 04 A3 0B A2 05 00 00 00 00 00 04 28 0E D0 42 18 36 66 BE 34 04 28 0F BA 0C BB 6C 00 30 BA 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A AA 00 55 77 00 FA 04 A6 00 0C F0 4F 46 01 30 BA 04 A8 01 E4 DE 01 00 15 B4 B6 04 A8 02 3E 74 50 03 13 A3 DD 04 A8 03 00 00 01 00 00 00 00 04 A8 04 00 00 00 00 00 00 00 04 A8 05 0C F0 5B 11 38 CB B4 04 A8 06 C2 04 D7 D0 42 83 33 04 A8 07 66 BE 58 94 E1 BA 04 04 A8 08 91 93 BA CD 86 25 BB 04 A8 09 50 03 19 C1 98 78 B9 04 A8 0A 3C 11 F3 E5 3D 0A 01 04 A3 0B E0 D2 F3 E5 3D 0A 01 04 28 10 02 A6 8F BB 50 03 19 04 28 11 C1 A4 79 B9 3C 63 F3 02 A8 04 00 00 00 99 1A 1E BB 02 A8 05 08 D5 AB BA 5A BE 9B 02 A8 06 BB AD 05 19 C1 E0 EE 02 A8 07 5B 11 9A B2 7D C9 4D 02 A8 08 ED CC C7 6A 38 E2 C8 02 A8 09 00 00 00 00 00 00 00 02 A8 0A 00 00 00 00 00 01 00 02 A8 0B 00 00 AF FF DF FE 00 02 A8 0C E7 2F 40 00 20 4A 3F 02 A8 0D E0 F8 EF 41 98 1A FB 02 A8 0E 41 5B 00 50 55 22 51 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A |   **2、使用支持UDP组播发送的网络调试工具向软件每隔10ms发送一次步骤1的测试数据，软件解析后界面显示结果如下：**    **3、对步骤1中的系统判决状态数据（原始数据）按照给定的CAN帧协议格式进行解析，结果如下：**  00 0F 46 01 60 01 BB 2C 04 A8  01 73 50 03 13 11 B4 B6 04 A8 7  02 3E A1 DD 00 00 00 00 04 A8 14  03 00 00 00 00 00 00 00 04 A3 21  04 00 00 00 99 1A 1E BB 02 A8 28  05 08 D5 AB BA 5A BE 9B 02 A8 35  06 BB AD 05 19 C1 E0 EE 02 A8 42  07 5B 11 9A B2 7D C9 4D 02 A8 49  08 ED CC C7 6A 38 E2 C8 02 A8 56  09 00 00 00 00 00 00 00 02 A8 63  0A 00 00 00 00 00 01 00 02 A8 70  0B 00 00 AF FF DF FE 00 02 A8 77  0C E7 2F 40 00 20 4A 3F 02 A8 84  0D E0 F8 EF 41 98 1A FB 02 A8 91  0E 41 5B 00 50 55 22 51  以上解析结果中，每个连续的颜色突出显示部分代表一个信息内容，根据被测方提供的CAN帧协议描述，触点状态（触点1~触点10）分别位于第75、第76字节，对应信息内容为0xDF FE，其二进制表示如下（红色字体为测试数据触点状态结果）：   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | bit7 | bit6 | bit5 | bit4 | bit3 | bit2 | bit1 | bit0 | | **1** | **1** | **0** | 1 | 1 | 1 | 1 | 1 | | 1 | **1** | **1** | **1** | **1** | **1** | **1** | **0** |   而被测方提供的协议中对触点状态描述如下：   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 字节序（从1开始） | bit7 | bit6 | bit5 | bit4 | bit3 | bit2 | bit1 | bit0 | | 75 | 触点3（动令，1有效） | 触点2（预令，1有效） | 触点1（起飞，0已起飞） |  |  |  |  | 陀螺故障标识，0为正常 | | 76 | 恒流源至火工品回路状态 | 触点10（二级自毁工作状态B，1有效） | 触点9（二级自毁工作状态A，1有效） | 触点8（一级自毁工作状态B，1有效） | 触点7（一级自毁工作状态A，1有效） | 触点6 | 触点5 | 触点4（一级分离，0已分离） |   故根据测试数据解析结果判断，标识位解析结果应为：  触点1测试数据解析结果为0，对应为起飞，软件解析后显示为未起飞：    触点2测试数据解析结果为1，对应为预令发出，软件解析后显示为无效：    触点3测试数据解析结果为1，对应为动令发出，软件解析后显示为无效：    触点4解析结果为0，对应为已分离，软件解析后显示为未分离：    触点7~触点10解析结果为全1，对应为弹体保险解除，软件解析后显示为弹体保险未解除：    由此可得，软件对触点状态的解析结果与测试数据不一致。  **违背规则：**  该问题违背系统判决状态数据解析功能实现与协议不一致原则。  **造成影响：**  无法判断软件系统判决状态数据解析功能实现正确性。 | | | |
| **修改建议** | 修改软件或文档，确保软件解析结果与协议一致性。 | | | |
| **沟通意见** | **□**确认 | □　修改 | | |
| □　不修改　　原因分析： | | |
| □　暂不修改　原因分析： | | |
| **□**☑取消 | 原因分析：最新协议已更改。 | | |
| 签字：　　　　　　　　　　　　　　年　月　日 | | | |

软件问题沟通记录单3-已修改

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| **项目名称** | 遥测数据解析软件 | | **项目标识** | SJJSJX$X |
| **问题名称** | 自主安控数据-导航数据（慢速）-Z加计温度、陀螺故障标识解析结果与测试数据不一致 | | **问题标识** | R1\_SJJSJX$X\_3 |
| **报告人** | 张玉凤 | | **报告日期** | 2021.05.26 |
| **关联的**  **测试用例** | **测试用例章节号** | | **测试用例名称** | **测试用例标识** |
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| **问题类别** | ■程序错误□文档错误□设计错误□其它错误 | | | |
| **问题级别** | □致命（一级）□严重（二级）■一般（三级）□轻微（四级） | | | |
| **软件版本** | V1.0 | | | |
| **问题**  **概要描述** | 自主安控数据CAN帧解析数据中，导航数据（慢速）的Z加计温度信息内容解析结果与测试数据不一致。 | | | |
| **问题**  **详细描述** | **问题描述：**  1、**使用被测方提供的测试数据，提取包含导航数据（慢速）数据帧的UDP数据（原始数据），如下：**   |  | | --- | | AA 00 55 77 00 8C 04 A6 00 0C 38 18 46 01 98 C7 04 A8 01 94 79 01 00 B3 B4 B6 04 A8 02 3E 8B 51 03 13 C1 DD 04 A8 03 00 00 FF FF FF FF 00 04 A8 04 00 00 00 01 00 00 00 04 A8 05 00 00 00 00 87 CE B4 04 A8 06 C2 EA D1 D0 42 3D 50 04 A8 07 66 BE B0 59 F5 BA 6E 04 A8 08 56 B2 BA AA 99 F0 BA 04 A8 09 E3 08 1F C1 37 98 AE 04 A8 0A 3C 50 C8 E6 3D 0A 00 04 A3 0B B8 9A C8 E6 3D 0A 00 04 26 00 13 37 18 79 02 0A 00 04 28 01 68 F5 59 11 72 79 BB 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A AA 00 55 77 00 8C 04 A6 00 0C 39 18 46 01 79 BB 04 A8 01 96 79 01 00 B3 B4 B6 04 A8 02 3E 8B 51 03 13 C1 DD 04 A8 03 00 00 FF FF FF FF 00 04 A8 04 00 00 00 00 00 00 00 04 A8 05 00 00 00 00 86 CE B4 04 A8 06 C2 EC D1 D0 42 73 4B 04 A8 07 66 BE 84 82 61 BA C0 04 A8 08 8E AC BA 38 0C E2 BB 04 A8 09 4E 03 19 C1 F6 D2 B4 04 A8 0A 3C 9E F1 E5 3D 0A 00 04 A3 0B 93 56 F1 E5 3D 0A 00 04 28 02 D5 B4 B6 3E 9B 51 03 04 28 03 13 C2 DD 00 00 00 00 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 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A8 05 00 00 00 00 88 CE B4 04 A8 06 C2 EB D1 D0 42 F5 4B 04 A8 07 66 BE 7E 13 0D BB C1 04 A8 08 DB 8D BA C4 2A B2 BB 04 A8 09 40 0B 1F C1 6E 58 BB 04 A8 0A 3C 4A 2C A1 BE CA 00 04 A3 0B E9 30 2C A1 BE CA 00 04 28 0C 00 00 00 00 01 00 00 04 28 0D 00 87 CE B4 C2 EA D1 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 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D0 42 C2 4E 04 A8 07 66 BE 09 19 3B BB 46 04 A8 08 B7 41 3A 72 D7 F4 B9 04 A8 09 76 08 19 C1 EA 5F E9 04 A8 0A 3E 14 8B E9 3D CA 00 04 A3 0B 29 AD 8B E9 3D CA 00 04 28 0E D0 42 3D 50 66 BE B0 04 28 0F 59 F5 BA 6E 56 B2 BA 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A AA 00 55 77 00 8C 04 A6 00 0C 40 18 46 01 B2 BA 04 A8 01 A4 79 01 00 C4 B4 B6 04 A8 02 3E 92 51 03 13 C1 DD 04 A8 03 00 00 FF FF FF FF 00 04 A8 04 00 00 00 FF FF FF FF 04 A8 05 CC F5 59 11 88 CE B4 04 A8 06 C2 EB D1 D0 42 4F 4E 04 A8 07 66 BE 3C E4 0E BB 99 04 A8 08 EC A0 BA C4 48 23 BB 04 A8 09 E3 08 1F C1 31 99 AE 04 A8 0A 3C ED C7 E6 3D 0A 01 04 A3 0B BD FB C7 E6 3D 0A 01 04 28 10 AA 99 F0 BA E3 08 1F 04 28 11 C1 37 98 AE 3C 50 C8 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A AA 00 55 77 00 82 04 A6 00 0C 41 18 46 01 50 C8 04 A8 01 A6 79 01 00 C4 B4 B6 04 A8 02 3E 92 51 03 13 C1 DD 04 A8 03 00 00 FF FF FF FF 00 04 A8 04 00 00 00 FF FF FF FF 04 A8 05 00 00 00 00 89 CE B4 04 A8 06 C2 EC D1 D0 42 E8 4E 04 A8 07 66 BE 03 9A F0 BA F0 04 A8 08 E5 ED BA BC 3A 80 BB 04 A8 09 4E 03 19 C1 D0 CF B4 04 A8 0A 3C B4 F1 E5 3D 0A 00 04 A3 0B C3 A2 F1 E5 3D 0A 00 04 25 12 E6 3D DC 37 3D 0A 00 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A 5A |   **2、使用支持UDP组播发送的网络调试工具向软件每隔10ms发送一次步骤1的测试数据，软件解析后界面显示结果如下：**    **3、对步骤1中的导航数据（慢速）（原始数据）按照给定的CAN帧协议格式进行解析，结果如下：**  00 13 37 18 79 02 0A 00 04 28  01 68 F5 59 11 72 79 BB  02 D5 B4 B6 3E 9B 51 03 04 28  03 13 C2 DD 00 00 00 00  04 00 00 FE FF FF FF 01 04 28  05 00 00 00 A2 00 55 00  06 89 00 1F 1F 1F 1F 22 04 28  07 21 64 9D 4B B5 62 9E  08 62 9D 62 9D 00 00 00 04 28  09 00 E3 E5 1C A0 B3 B4  0A B6 3E 8B 51 03 13 C1 04 28  0B DD 00 00 FF FF FF FF  0C 00 00 00 00 01 00 00 04 28  0D 00 87 CE B4 C2 EA D1  0E D0 42 3D 50 66 BE B0 04 28  0F 59 F5 BA 6E 56 B2 BA  10 AA 99 F0 BA E3 08 1F 04 28  11 C1 37 98 AE 3C 50 C8  12 E6 3D DC 37 3D 0A 00  以上解析结果中，每个连续的颜色突出显示部分代表一个信息内容，根据被测方提供的CAN帧协议描述，Z加计温度信息内容位于第43字节，对应信息内容为0x21（对应十进制为33），而软件解析后显示结果为空：    4、根据被测方提供的CAN帧协议描述，陀螺故障标志位于第61字节（从1开始计数），对应信息内容为0xA0，其二进制表示如下（红色字体为测试数据陀螺故障标志结果）：   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | bit7 | bit6 | bit5 | bit4 | bit3 | bit2 | bit1 | bit0 | | 1 | 0 | 1 | **0** | **0** | **0** | 0 | 0 |   而被测方提供的协议中对陀螺故障标识描述如下：   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | bit7 | bit6 | bit5 | bit4 | bit3 | bit2 | bit1 | bit0 | |  |  |  | 陀螺故障z故障：  0：正常1：故障 | 陀螺故障y故障：  0：正常1：故障 | 陀螺故障x故障：  0：正常1：故障 |  |  |   故根据测试数据解析结果判断，陀螺标志位解析结果应为陀螺正常，而软件解析后显示结果如下：    由此可得，导航数据（慢速）数据中Z加计温度、陀螺故障标志内容解析结果与协议不一致。  **违背规则：**  该问题违背导航数据（慢速）解析功能实现与协议不一致原则。  **造成影响：**  无法判断软件导航数据（慢速）解析功能实现正确性。 | | | |
| **修改建议** | 修改软件或文档，确保软件解析结果与协议一致性。 | | | |
| **沟通意见** | **□**确认 | □🗹修改 Z加计温度后无数据，写漏代码；陀螺标志位数据代码符号使用错误 | | |
| □　不修改　　原因分析： | | |
| □　暂不修改　原因分析： | | |
| **□**取消 | 原因分析： | | |
| 签字：　　　　　　　　　　　　　　年　月　日 | | | |

软件问题沟通记录单4-已修改（与问题3的第一个问题重复）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **项目名称** | 遥测数据解析软件 | | **项目标识** | SJJSJX$X |
| **问题名称** | 自主安控数据-导航数据（慢速）-标志位2解析结果与测试数据不一致 | | **问题标识** | R1\_SJJSJX$X\_3 |
| **报告人** | 张玉凤 | | **报告日期** | 2021.05.26 |
| **关联的**  **测试用例** | **测试用例章节号** | | **测试用例名称** | **测试用例标识** |
|  | |  |  |
| **问题类别** | ■程序错误□文档错误□设计错误□其它错误 | | | |
| **问题级别** | □致命（一级）□严重（二级）■一般（三级）□轻微（四级） | | | |
| **软件版本** | V1.0 | | | |
| **问题**  **概要描述** | 自主安控数据CAN帧解析数据中，导航数据（慢速）的标识位2内容的陀螺故障标志内容解析结果与测试数据不一致。 | | | |
| **问题**  **详细描述** | **问题描述：**  1、**使用被测方提供的测试数据，提取包含完整导航数据（慢速）数据帧的UDP数据（原始数据），提取的数据见软件问题沟通记录单3中步骤1的数据。**  **2、使用支持UDP组播发送的网络调试工具向软件每隔10ms发送一次步骤1的测试数据，软件解析后界面显示结果如下：**    **3、对步骤1中的导航数据（慢速）（原始数据）按照给定的CAN帧协议格式进行解析，结果如下：**  00 13 37 18 79 02 0A 00 04 28  01 68 F5 59 11 72 79 BB  02 D5 B4 B6 3E 9B 51 03 04 28  03 13 C2 DD 00 00 00 00  04 00 00 FE FF FF FF 01 04 28  05 00 00 00 A2 00 55 00  06 89 00 1F 1F 1F 1F 22 04 28  07 21 64 9D 4B B5 62 9E  08 62 9D 62 9D 00 00 00 04 28  09 00 E3 E5 1C A0 B3 B4  0A B6 3E 8B 51 03 13 C1 04 28  0B DD 00 00 FF FF FF FF  0C 00 00 00 00 01 00 00 04 28  0D 00 87 CE B4 C2 EA D1  0E D0 42 3D 50 66 BE B0 04 28  0F 59 F5 BA 6E 56 B2 BA  10 AA 99 F0 BA E3 08 1F 04 28  11 C1 37 98 AE 3C 50 C8  12 E6 3D DC 37 3D 0A 00  以上解析结果中，每个连续的颜色突出显示部分代表一个信息内容，根据被测方提供的CAN帧协议描述，Z加计温度信息内容位于第43字节，对应信息内容为0x21（对应十进制为33），而软件解析后显示结果为空：    由此可得，软件对Z加计温度信息内容的解析结果与测试数据不一致。  **违背规则：**  该问题违背导航数据（慢速）解析功能实现与协议不一致原则。  **造成影响：**  无法判断软件导航数据（慢速）解析功能实现正确性。 | | | |
| **修改建议** | 修改软件或文档，确保软件解析结果与协议一致性。 | | | |
| **沟通意见** | **□**确认 | □　修改 | | |
| □　不修改　　原因分析： | | |
| □　暂不修改　原因分析： | | |
| **□**取消 | 原因分析： | | |
| 签字：　　　　　　　　　　　　　　年　月　日 | | | |