

FORD LDM Localization - 功能 #2592

功能 # 2519 (已关闭): Ford\_SYSR: System Requirement

Ford\_SYSR : FS\_REQ0071\_V1 Description of Node Reporting

2024-10-24 19:44 - 玉洁 金

状态:	已关闭	开始日期:	2024-10-29
优先级:	普通	计划完成日期:	2024-11-07
指派给:	斌 徐	% 完成:	100%
类别:		预期时间:	0.00 小时
目标版本:	H003_SW0007169.A001.8	耗时:	0.00 小时

描述

SAE J2602 Status Byte

In J2602, the very first byte transmitted by any node is the LIN Status Byte. It has this format:

LIN J2602 Status Byte

Bit 7 (MSB)	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0 (LSB)
ERR2	ERR1	ERR0	APINFO4	APINFO3	APINFO2	APINFO1	APINFO0

ERR2	ERR1	ERR0	Meaning
0	0	0	No fault detected
0	0	1	Reset
0	1	0	Reserved
0	1	1	Reserved
1	0	0	Data (loopback) Error
1	0	1	Checksum Error
1	1	0	ByteField Framing Error
1	1	1	ID Parity Error

Table 36: LIN J2602 Status Byte Meanings (BITs ERR2, ERR1, ERR0)  
All these faults are "one-shot." In other words, they are only reported once and then they are cleared and not reported again until they occur again.  
o DLPL\_LIN\_15\_002 – Ford Standard J2602 Extension

All nodes are required to report the Ford Standard J2602 Error Handling Extension  
o Ford Standard J2602 Error Handling Extension

Even though APINFO4 is called out by J2602, it is included in this list because Ford expects that all nodes continue to report these errors as long as the error exists.

Even though APINFO0 is designated as unused, it should be set to zero in all reported status bytes

APINFO4	APINFO3	APINFO2	APINFO1	APINFO0	Meaning
0	0	0	0	unused	No failure to report
1	Don't care	Don't care	Don't care	unused	Node not configured
Don't care	0	1	Don't care	unused	Output disabled temporarily due to environmental issue (temperature, voltage), no short. Do not use this for load shedding. Note that this case should be used when the disabling of the output is not due to a vehicle repairable fault. The service manual should indicate that

					the condition was due to the capacity of the output being exceeded. Note: Currently the LDM does use or set this fault type.
Don't care	1	0	Don't care	unused	One or more outputs disabled temporarily due to short or open circuit. (Load Fault)
Don't care	1	1	Don't care	unused	ECU fault (can be any internal fault or an output driver fault)
Don't care	Don't care	Don't care	1	unused	One or more input faults detected.Note that this is unreliable when the node reports ECU fault.

Note: ECU fault can be used to indicate other major faults besides output FET and 3/3 life.  
Table 37: Ford Standard Extension of LIN J2602 Status Byte

子任务:	
功能 # 2785: Ford_SWER_0071_0001 : Data format for first byte of L...	已关闭
功能 # 2790: Ford_SWER_0071_0002 : Error Status meanings in first ...	已关闭
功能 # 2796: Ford_SWER_0071_0003 : Errors are reported once in LIN...	已关闭
功能 # 2797: Ford_SWER_0071_0004 : All nodes are required to repor...	已关闭
功能 # 2798: Ford_SWER_0071_0005 : APINFOx should follow Ford Stan...	已关闭
功能 # 2800: Ford_SWER_0071_0006 : APINFO0 should be set to zero i...	已关闭
功能 # 2811: Ford_SWER_0071_0007 : APINFO0 bit map	已关闭

历史记录

#1 - 2024-10-25 10:36 - 涛陆  
完成

#2 - 2024-10-29 10:19 - 斌徐  
- 指派给从 槐杨 变更为 斌徐

#3 - 2024-11-21 10:17 - 斌徐  
- 状态从 新建 变更为 已关闭