FORD LDM Localization - 功能 #2598

功能 # 2519 (已关闭): Ford_SYSR: System Requirement

Ford_SYSR：FS_REQ0077_V3 Run Time Configuration Validation

2024-10-24 19:58 - 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:	槐 杨	**% 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

The Front LDM modules will check the configuration data index to that broadcast by the BCM. BCM Command Frame 2 contains a signal, “ vehicle_ldm_cfg ” which is set to the method 2 variant selection index during programming. The LDM, on an ongoing runtime basis, compares the data in this signal to the Cfg_Match, 4bit. If the 2 values are not the same, the LDM will flag “ Not Configured ” in the J2602 status byte. If this Cfg does not match the value broadcast by the BCM, then the LDM is not configured for the vehicle it is installed in and should report Not Configured. This protocol is used to identify if LDM ’ s are mixed between vehicles to flag the mismatch, particularly for region specific legal performance requirements. This method of holding the data in the BCM through its service life allows the BCM to configure new LDM installed in the vehicle during service without requiring additional data transfers or data management in the tools.

Name: **LINsel_FEEL_Cfg**
Description: Allows a method 2 parameter to select one of several sets of method 3 values to be the configuration data for the FEEL LIN slave. Integers 0 to a maximum which depends on the number of the configuration records in the LIN Configuration File.
Type: Numeric
Category: ECU Internal
Initial Value: 0
Storage Class: Non-Volatile -- Factory Set Method 2 Estimated NVRAM Write 1
Config Param is: Application Dependent
Structure of Data: Scalar
Units: None
Resolution: 1
Min Value: 0
Max Value: 255

Name of Process	Relationship
Diagnostics -- Configuration Method 2	Source
LIN Network Signal Processing	Sink
NVRAM Manager	Source

Figure 13: BCM vehicle_ldm_cfg

Also, because the BCM has a finite amount of storage space, there is a limit to the Configuration Data, # of Variants and the number of different Node Lighting Module ’ s that can be supported thru in vehicle programming. Also, the increased complexity can drive higher BCM validation costs as the BCM has to validate its configuration capability with the LIN bus.

The limit for this LDM is 100 bytes per parameter set. Nine Sets will be supported.

LIN Node Name	XML required Name	Max Bytes Allowed	Functional Description
Rear View Camera	RVC	256	Rear camera LIN node
Combined Sensor Module	CSM	640	Intrusion and Inclination sensing LIN node
Signal Driver Module	SXDM	900	Signal XDM (Smart LED Driver Module / LDM) used in Front Headlamp / Signature Lamp / Park / Turn lamp applications.
Fade Control Module	FCM	300	Fade Control Module (Extra LED Driver Module) Used to control Fade ON / Fade OFF or Rear Lamps (Park / Tail)
Hands Free module	HFM	800	Rear Bumper kick sensor LIN node for rear hatch opening.

Table 42: LIN Secomdary Node Identifier and Size

子任务:

功能 # 2852: Ford_SWER_0077_0001：Compare data of BCM broadcast f... **已关闭**

历史记录

#1 - 2024-10-25 10:49 - 涛 陆

完成

#2 - 2024-11-01 13:19 - 玉洁 金

- 文件 clipboard-202411011318-bcoox.png 已添加

- 文件 clipboard-202411011319-w47h3.png 已添加

- 描述 已更新。

#3 - 2024-11-22 09:40 - 斌 徐

- 状态 从 新建 变更为 已关闭

文件

clipboard-202410241957-2kztj.png	83.8 KB	2024-10-24	玉洁 金
clipboard-202410241958-5rzod.png	82.3 KB	2024-10-24	玉洁 金
clipboard-202411011318-bcoox.png	83.8 KB	2024-11-01	玉洁 金
clipboard-202411011319-w47h3.png	82.3 KB	2024-11-01	玉洁 金