# FORD LDM Localization - 功能 #2589

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

## Ford\_SYSR : FS\_REQ0068\_V1 Exterior Lighting Functional Support

2024-10-24 19:32 - 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	% <b>完成</b> :	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

Many of the signals defined in the Command Frames provide functionality that appear to overlap and do to some extent. For instance, Ignition\_Status and the WFSuperstate:RunStart are both use for Ignition "On" detection, however the level of logic processing in the BCM differs. The Ignition\_Status provides a debounced read and state generation from the Raw Switch. The WFSuperstate provides a minor delay in Welcome/Farewell transition to RunStart to allow Ambient Light — Autolamps make a smooth pickup of functionality in the Position Lamps. This signal incorporates more functional logic of the vehicle feature behavior from the BCM. This provides a consistent vehicle behavior for Ford vehicles based on the developed logic already in production.

In general, the intent is to use the feature content processing of the BCM were possible. Known exceptions will be noted.

The primary signals driving the Position and Headlamp logic in the LDMs will be:

o Position\_Park\_Left\_Cmd

the Position

- o Position\_Park\_Right\_Cmd
- o Headelamps\_Low\_Beams\_Out

o Headlamps\_High\_Beams\_Out

These signals will be the executed logic for basic headlamp functions and are equivalent to the states the lamps would be driven with if directly attached to the BCM. The configuration of lamp activations (Multiple DRL/Signature Lamps) based on these inputs are given in the LDM configuration tables. Headlight\_Status, FTP\_Status and High\_Beam\_Status are signals provided for triggering and processing in addition to the basic BCM logic or for triggering alternate functions as required.

Vehicles (LDMs) configured for ECE Markets will support Single Sided Position Lamps. The LDM will receive a Left OR Right Position Park\_xxx\_Cmd with Headlight\_Status = Off. This will request a single LDM (Corresponding Left or Right to received

<pre>(x_Cmd with Headlight_Status = Off. This will request a single LDM (</pre>	Corresponding Left or Right to received command) to illuminate		
<sup>D.</sup> Ignition_Status	LDM will use this signal as a transition from Welcome/Farewell into Vehicle Operation Mode. Will also be used to enable/disable features based on Ignition state per market configuration.		
Turn_Signal_Light_Cmd	Turn signals are directly controlled by the BCM, however if the LDM receives Left or Right Turn Cmd without detecting the direct Turn Signal pulse, this signal should override the appropriate DRL if configured to do this function from the direct feed.		
Position_Park_Left_Cmd	This signal is the logic that drives the Left POS/Park Lamp. If European Single Sided Position is enabled in the BCM, this line will activate in Headlamp OFF with the Left Turn signal switch. BCM will assert both Left and Right for normal Position Functionality		
Position_Park_Right_Cmd	This signal is the logic that drives the Right POS/Park Lamp. If European Single Sided Position is enabled in the BCM, this line will activate in Headlamp OFF with the Right Turn signal switch. BCM will assert both Left and Right for normal Position Functionality		
Headlamp_Low_Beams_Out	Full BCM Feature Logic Low Beam Signal. This signal will represent the Low Beam active state for the LDM and will drive Low Beam operation across the LIN Bus for ECE Low Beam elements.		
Headlamps_High_Beams_Out	Full BCM Feature Logic High Beam Signal. High Beam driving functions are not part of the Signal LDM. This signal will be used for features that react with High Beam BCM feature logic.		

	Headlight_Status		Allows features to be tied to Headlamp switch state, none currently defined.				
	FTP_Status		Fast Reaction Input to allow logic to determine lamp re rate based on Auto or Manual High Beam Request. Hi is not current part of Signal LDM function.				
	High_Beam_Status		Fast Reaction Input to allow logic to determine lamp response rate based on Auto or Manual High Beam Request. High Beam is not current part of Signal LDM function.				
Veh_Speed			Vehicle speed data for speed dependent functionality.				
	Day_Night_Status		BCM Day Night Status for Autolamp feature, provided to allow function sync with Day/Night Behaviors. See Lighting Logic Diagram				
	DRL_Rqst		This signal is a fully arbitrated DRL control signal from the BCM. It includes the basic operation of the DRL lamps as well as regional overrides (Trans Park (US/Canada) and Cluster Select (US)). It should be used to directly drive the DRL state in the LDM.				
Table 30: Exterior Lighting Functional Description Many of the signals defined in the Command Frames provide for future defined functionality or to link Exterior Behaviors with internal activity. For instance, Door Aiar signals, Some interior functions are linked to individual door opening. Providing these signals on the LIN bus allow the same							
potential linking with	DF_Door_Ajar_Status	<u> </u>	Potential trigger for interior coordination.				
		PF_Door_Ajar_Status		Potential trigger for interior coordination.			
		DR_Door_Ajar_Status		Potential trigger for interior coordination.			
		PR_Door_Ajar_Status		Potential trigger for interior coordination.			
		LG_Ajar_Status		Potential trigger for interior coordination.			
		Any_Door_Ajar_Status		Potential trigger for interior coordination.			
		Front_Foglamp_Rqst		Direct Front Fog activation logic for LDM Front Fog feature support			
		Rear_Foglamp_Rqst		Direct Rear Fog activation logic for LDM Front Fog feature support			
		Reverse_Gear_Status		Direct Reverse Gear Logic, backup lights.			
Lice Tra Bec		License_Lamps_Cmd		For use with Rear LDM to drive License Plate Lamps			
		Trailer_Hitch_Lamp		For use with Rear LDM to drive Trailer Hitch (Backup Assist) Lamps			
		Bedlamp_Rqst		For use with Rear LDM to drive Pickup Truck Bed Lamps			
Table 31: Exterior Lic	nting Future Functionality Sup	nort					
」」。 功能#2854: Ford_SWI	ER_0068_0001:The main lighting	已关闭					
	ER_0068_0002 : Exterior Lighting	已关闭					

## 功能#2855: Ford\_SWER\_0068\_0002: Exterior Lighting Functional De...

# 历史记录

#1 - 2024-10-24 20:36 - **斌徐** 

- *计划完成日期 被设置为* 2024-10-31

#2 - 2024-10-25 10:24 - **涛陆** 未完成,有些信号没有获取

## #3 - 2024-11-01 14:10 - **斌 徐**

- 描述 已更新。

#4 - 2024-11-21 10:11 - **斌 徐** 

- 状态 从 新建 变更为 已关闭