

**Research & Vehicle Technology**

**“Infotainment Systems Product Development”**

**Feature – Driver Assist VIP/CCPU Interface**

**Infotainment Subsystem Part Specific Specification (SPSS)**

Version 1.2

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**Version Date: January 19, 2022**

**FORD CONFIDENTIALF**

**Revision History**

|  |  |  |  |  |  |
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| **Date** | | **Version** | **Notes** | | |
| **June 28, 2021** | | **1.0** | **Initial Release** |  | |
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| **December 8, 2021** | **1.1** | |  | | |
|  | 1011250/A-ADAS | | | | tmertiri:Update structure below |
|  | DAVIP-REQ-425378/B-Feature Based Message Protocol Signal Mapping for Camera Showing 0x081B | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425379/B-Feature Based Message Protocol Signal Mapping for TBA2 Pan 0x0827 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425380/B-Feature Based Message Protocol Signal Mapping for TBA2 Pan Enable 0x0828 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425381/B-Feature Based Message Protocol Signal Mapping for TBA2 Auto Mode 0x0826 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425382/B-Feature Based Message Protocol Signal Mapping for TBA2 Zoom 0x0829 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425383/B-Feature Based Message Protocol Signal Mapping for Camera PictureInPicture 0x082A | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425384/B-Feature Based Message Protocol Signal Mapping for Rear Camera Visual Park Aid Overlays 0x080A | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425385/B-Feature Based Message Protocol Signal Mapping for All Overlays 0x0812 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425386/B-Feature Based Message Protocol Signal Mapping for Rear Camera Static Overlays 0x0818 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425387/B-Feature Based Message Protocol Signal Mapping for Rear Camera Dynamic Overlays 0x0819 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425388/B-Feature Based Message Protocol Signal Mapping for Manual Zoom 0x081A | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425389/B-Feature Based Message Protocol Signal Mapping for TRG Zoom In 0x0820 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425390/B-Feature Based Message Protocol Signal Mapping for TRG Pan Button 0x0823 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425391/B-Feature Based Message Protocol Signal Mapping for TRG Button Enable 0x0824 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425392/B-Feature Based Message Protocol Signal Mapping for TRG Auto Mode 0x0825 | | | | tmertiri:upgrade content and design |
|  | 1012113/A-APIM\_AOS | | | | tmertiri:Update structure below |
|  | DAVIP-REQ-425393/B-Feature Based Message Protocol Signal Mapping for Display State 0x0030 | | | | tmertiri:upgrade content and design |
|  | DAVIP-REQ-425394/B-FBMP Translation Mapping Diagram | | | | tmertiri:upgrade content and design |
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|  | DAVIP-REQ-425379/C-Feature Based Message Protocol Signal Mapping for TBA2 Pan 0x0827 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425380/C-Feature Based Message Protocol Signal Mapping for TBA2 Pan Enable 0x0828 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425381/C-Feature Based Message Protocol Signal Mapping for TBA2 Auto Mode 0x0826 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425382/C-Feature Based Message Protocol Signal Mapping for TBA2 Zoom 0x0829 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425383/C-Feature Based Message Protocol Signal Mapping for Camera PictureInPicture 0x082A | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425384/C-Feature Based Message Protocol Signal Mapping for Rear Camera Visual Park Aid Overlays 0x080A | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425385/C-Feature Based Message Protocol Signal Mapping for All Overlays 0x0812 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425386/C-Feature Based Message Protocol Signal Mapping for Rear Camera Static Overlays 0x0818 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425387/C-Feature Based Message Protocol Signal Mapping for Rear Camera Dynamic Overlays 0x0819 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425388/C-Feature Based Message Protocol Signal Mapping for Manual Zoom 0x081A | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425389/C-Feature Based Message Protocol Signal Mapping for TRG Zoom In 0x0820 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425390/C-Feature Based Message Protocol Signal Mapping for TRG Pan Button 0x0823 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425391/C-Feature Based Message Protocol Signal Mapping for TRG Button Enable 0x0824 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425392/C-Feature Based Message Protocol Signal Mapping for TRG Auto Mode 0x0825 | | | | tmertiri:Add errors and Timeouts |
|  | DAVIP-REQ-425394/C-FBMP Translation Mapping Diagram | | | | tmertiri:update diagram |
|  | 1012113/B-APIM\_AOS | | | | tmertiri:Update content |
|  | DAVIP-REQ-425393/C-Feature Based Message Protocol Signal Mapping for Display State 0x0030 | | | | tmertiri:Remove St |

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## FBMP Translation Mapping Overview

This specification provides mapping tables between FBMP signals and their respective internal signal that are to be used in Phoenix-based architectures.

## ADAS

For the features in this group, Phoenix communicates with ADAS modules.

Message 0x3EE is Phoenix RX. It provides Camera Status.

Message 0x3E2 is Phoenix Tx. It is centerstack requests.

### DAVIP-REQ-474938/A-Definitions

Timeout: Refer to 299675/A-Retry Strategy of Personalization Display Setup Overview.

Error: If the response is out of range for the values, invalid or error bit set by the bus.

### DAVIP-REQ-425378/C-Feature Based Message Protocol Signal Mapping for Camera Showing 0x081B

|  |  |
| --- | --- |
| Feature Name | Camera Showing |
| Feature ID | 0x081B |
| Signal Length | 7 bit |
| VIP-CCPU | CameraShowing\_Mc\_St |
| CCPU-VIP | CameraShowing\_Mc\_Cmd |
|  |  |
|  |  |
|  |  |
| Configuration name | Configuration Value |
| Off | 0x00 |
| Front | 0x01 |
| Rear | 0x02 |
| Remote | 0x03 |
| Rear360 | 0x04 |
| RearNormal | 0x05 |
| RearSplit | 0x06 |
| Front360 | 0x07 |
| FrontNormal | 0x08 |
| FrontSplit | 0x09 |
| RearZoom | 0x0A |
| CHMSL | 0x0B |
| CHMSLZoom | 0x0C |
| Aux | 0x0D |
| Straight Back-up Mode | 0x10 |
| TBA2 RearSplit | 0x11 |
| TBA2 Rear360 | 0x12 |
| TBA2 CHMSL | 0x13 |
| TBA2 AUX | 0x14 |
| TBA2 5050 | 0x15 |
| TBA2 RearNormal | 0x16 |
| Auto Hitch RearNormal | 0x17 |
| RearFWDOffset | 0x18 |
| RearRWDOffset | 0x19 |
| FrontFWDOffset | 0x1A |
| FrontRWDOffset | 0x1B |
| RearFLCorner | 0x1C |
| RearFRCorner | 0x1D |
| RearRLCorner | 0x1E |
| RearRRCorner | 0x1F |
| FrontFLCorner | 0x20 |
| FrontFRCorner | 0x21 |
| FrontRLCorner | 0x22 |
| FrontRRCorner | 0x23 |
| FrontRockCrawl | 0x24 |
| RearRockCrawl | 0x25 |
| Hitch | 0x26 |
| Rcod | 0x27 |
| Hitch at speed | 0x28 |
| Rcod at speed | 0x29 |
| Aux at speed | 0x2A |
| Chmsl at speed | 0x2B |
| TRGOD | 0x2C |
| TRGOD at speed | 0x2D |
| CHMSL\_IOD | 0x2E |
| TURN\_SGLVIEW\_LEFT | 0x2F |
| TURN\_SGLVIEW\_RIGHT | 0x30 |
| TRAILER360 | 0x31 |
| TRAILERREARNORMAL | 0x32 |
| TRAILERINTERIOR\_VIEW1 | 0x33 |
| TRAILERINTERIOR\_VIEW2 | 0x34 |
| TRAILERLEFT | 0x35 |
| TRAILERRIGHT | 0x36 |
| TBA2\_TRAILER360 | 0x37 |
| TBA2\_TRAILERREARNORMAL | 0x38 |
| TBA2\_TRAILERINTERIOR\_VIEW1 | 0x39 |
| TBA2\_TRAILERINTERIOR\_VIEW2 | 0x3A |
| TBA2\_TRAILERLEFT | 0x3B |
| TBA2\_TRAILERRIGHT | 0x3C |
| TRAILERREARNORMAL\_AT\_SPEED | 0x3D |
| TRAILERINTERIOR\_VIEW1\_AT\_SPEED | 0x3E |
| TRAILERINTERIOR\_VIEW2\_AT\_SPEED | 0x3F |
| IVV | 0x40 |
| PIP\_TRGOD | 0x41 |
| PIP\_TRGOD\_AT\_SPEED | 0x42 |
| PIP\_AUX | 0x43 |
| PIP\_AUX\_AT\_SPEED | 0x44 |
| PIP\_TRAILERREARNORMAL | 0x45 |
| PIP\_TRAILERREARNORMAL\_AT\_SPEED | 0x46 |
| Auto Hitch Rear Camera Zoom view | 0x47 |
| Front Left Side Offset | 0x48 |
| Front Right Side Offset | 0x49 |
| Rear Left Side Offset | 0x4A |
| Rear Right Side Offset | 0x4B |
| AUX IOD | 0x4C |
| Not Used | 04D-0x7D |
| Timeout | 0x7E |
| Error | 0x7F |

### DAVIP-REQ-425379/C-Feature Based Message Protocol Signal Mapping for TBA2 Pan 0x0827

|  |  |
| --- | --- |
| Feature Name | TBA2 Pan |
| Feature ID | 0x0827 |
| Signal Length | 2 bits |
| VIP-CCPU | TBA2Pan\_Mc\_St |
| CCPU-VIP | TBA2Pan\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Right | 0x0 |
| Left | 0x1 |
| Timeout | 0x2 |
| Error | 0x3 |

### DAVIP-REQ-425380/C-Feature Based Message Protocol Signal Mapping for TBA2 Pan Enable 0x0828

|  |  |
| --- | --- |
| Feature Name | TBA2 Pan Eanble |
| Feature ID | 0x0828 |
| Signal Length | 3 bit |
| VIP-CCPU | TBA2PanEanble\_Mc\_St |
| CCPU-VIP | TBA2PanEanble\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Disable Left | 0x0 |
| Disable Right | 0x1 |
| Enable Left | 0x2 |
| Enable Right | 0x3 |
| Not Used | 0x4-0x5 |
| Timeout | 0x6 |
| Error | 0x7 |

### DAVIP-REQ-425381/C-Feature Based Message Protocol Signal Mapping for TBA2 Auto Mode 0x0826

|  |  |
| --- | --- |
| Feature Name | TBA2 Auto Mode |
| Feature ID | 0x0826 |
| Signal Length | 3 bit |
| VIP-CCPU | TBA2AutoMode\_Mc\_St |
| CCPU-VIP | TBA2AutoMode\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x0 |
| On | 0x1 |
| Not Available | 0x2 |
| Not Used | 0x3-0x5 |
| Timeout | 0x6 |
| Error | 0x7 |

### DAVIP-REQ-425382/C-Feature Based Message Protocol Signal Mapping for TBA2 Zoom 0x0829

|  |  |
| --- | --- |
| Feature Name | TBA2 Zoom |
| Feature ID | 0x0829 |
| Signal Length | 3 bit |
| VIP-CCPU | TBA2Zoom\_Mc\_St |
| CCPU-VIP | TBA2Zoom\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x00 |
| Level 1 | 0x01 |
| Level 2 | 0x02 |
| Level 3 | 0x03 |
| Not Used | 0x04-0x05 |
| Timeout | 0x06 |
| Error | 0x07 |

### DAVIP-REQ-425383/C-Feature Based Message Protocol Signal Mapping for Camera PictureInPicture 0x082A

|  |  |
| --- | --- |
| Feature Name | Camera PictureInPicture |
| Feature ID | 0x082A |
| Signal Length | 3 bit |
| VIP-CCPU | CameraPictureInPicture\_Mc\_St |
| CCPU-VIP | CameraPictureInPicture\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Standard View | 0x0 |
| Picture-In-Picture View | 0x01 |
| Swap | 0x02 |
| Not Used | 0x03-0x05 |
| Timeout | 0x06 |
| Error | 0x07 |

### DAVIP-REQ-425384/C-Feature Based Message Protocol Signal Mapping for Rear Camera Visual Park Aid Overlays 0x080A

|  |  |
| --- | --- |
| Feature Name | Rear Camera Visual Park Aid Overlays |
| Feature ID | 0x080A |
| Signal Length | 2 bit |
| VIP-CCPU | RearCameraVisualParkAidOverlays\_Mc\_St |
| CCPU-VIP | RearCameraVisualParkAidOverlays\_Mc\_Cmd |
|  |  |
|  | |
| : Configuration name | Configuration Value |
| Off | 0x00 |
| On | 0x01 |
| Timeout | 0x02 |
| Error | 0x03 |

### DAVIP-REQ-425385/C-Feature Based Message Protocol Signal Mapping for All Overlays 0x0812

|  |  |
| --- | --- |
| Feature Name | All Overlays |
| Feature ID | 0x0812 |
| Signal Length | 2 bit |
| VIP-CCPU | AllOverlays\_Mc\_St |
| CCPU-VIP | AllOverlays\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x00 |
| On | 0x01 |
| Timeout | 0x02 |
| Error | 0x03 |

### DAVIP-REQ-425386/C-Feature Based Message Protocol Signal Mapping for Rear Camera Static Overlays 0x0818

|  |  |
| --- | --- |
| Feature Name | Rear Camera Static Overlays |
| Feature ID | 0x0818 |
| Signal Length | 2 bit |
| VIP-CCPU | RearCameraStaticOverlays\_Mc\_St |
| CCPU-VIP | RearCameraStaticOverlays\_Mc\_Cmd |
|  |  |
|  |  |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x00 |
| On | 0x01 |
| Timeout | 0x02 |
| Error | 0x03 |

### DAVIP-REQ-425387/C-Feature Based Message Protocol Signal Mapping for Rear Camera Dynamic Overlays 0x0819

|  |  |
| --- | --- |
| Feature Name | Rear Camera Dynamic Overlays |
| Feature ID | 0x0819 |
| Signal Length | 2 bit |
| VIP-CCPU | RearCameraDynamicOverlays\_Mc\_St |
| CCPU-VIP | RearCameraDynamicOverlays\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x00 |
| On | 0x01 |
| Timeout | 0x02 |
| Error | 0x03 |

### DAVIP-REQ-425388/C-Feature Based Message Protocol Signal Mapping for Manual Zoom 0x081A

|  |  |
| --- | --- |
| Feature Name | Manual Zoom |
| Feature ID | 0x081A |
| Signal Length | 3 bit |
| VIP-CCPU | ManualZoom\_Mc\_St |
| CCPU-VIP | ManualZoom\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x00 |
| Level 1 | 0x01 |
| Level2 | 0x02 |
| Level3 | 0x03 |
| Not Used | 0x04-0x05 |
| Timeout | 0x06 |
| Error | 0x07 |

### DAVIP-REQ-425389/C-Feature Based Message Protocol Signal Mapping for TRG Zoom In 0x0820

|  |  |
| --- | --- |
| Feature Name | TRG Zoom In |
| Feature ID | 0x0820 |
| Signal Length | 3 bit |
| VIP-CCPU | TRGZoomIn\_Mc\_St |
| CCPU-VIP | TRGZoomIn\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x00 |
| Level 1 (Not used) | 0x01 |
| Level2 (Not Used) | 0x02 |
| Level3 | 0x03 |
| Not Used | 0x04-0x05 |
| Timeout | 0x06 |
| Error | 0x07 |

### DAVIP-REQ-425390/C-Feature Based Message Protocol Signal Mapping for TRG Pan Button 0x0823

|  |  |
| --- | --- |
| Feature Name | TRG Pan Button |
| Feature ID | 0x0823 |
| Signal Length | 2 bit |
| VIP-CCPU | TRGPanButton\_Mc\_St |
| CCPU-VIP | TRGPanButton\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Right Press | 0x00 |
| Left Press | 0x01 |
| Timeout | 0x02 |
| Error | 0x03 |

### DAVIP-REQ-425391/C-Feature Based Message Protocol Signal Mapping for TRG Button Enable 0x0824

|  |  |
| --- | --- |
| Feature Name | TRG Button Enable |
| Feature ID | 0x0824 |
| Signal Length | 3 bit |
| VIP-CCPU | TRGButtonEnable\_Mc\_St |
| CCPU-VIP | TRGButtonEnable\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Disable Left | 0x00 |
| Disable Right | 0x01 |
| Enable Left | 0x02 |
| Enable Right | 0x03 |
| Not Used | 0x04-0x05 |
| Timeout | 0x06 |
| Error | 0x07 |

### DAVIP-REQ-425392/C-Feature Based Message Protocol Signal Mapping for TRG Auto Mode 0x0825

|  |  |
| --- | --- |
| Feature Name | TRG Auto Mode |
| Feature ID | 0x0825 |
| Signal Length | 3 bit |
| VIP-CCPU | TRGAutoMode\_Mc\_St |
| CCPU-VIP | TRGAutoMode\_Mc\_Cmd |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Off | 0x00 |
| On | 0x01 |
| Not Available | 0x02 |
| Not Used | 0x03-0x05 |
| Timeout | 0x06 |
| Error | 0x07 |

## DAVIP-REQ-425394/C-FBMP Translation Mapping Diagram



## APIM\_AOS

For the features in this group, Phoenix sends this content in the bus.

Feature 0x0030, Display State, is used as “Heart Beat” from other receiving modules. VIP should send a 0x01 (No Display Fault) , every 5 sec from Ignition =Run, until CCPU sends a command with a new value.

### DAVIP-REQ-425393/C-Feature Based Message Protocol Signal Mapping for Display State 0x0030

|  |  |
| --- | --- |
| Feature Name | Display State |
| Feature ID | 0x0030 |
| Signal Length | 2 bit |
|  |  |
| CCPU-VIP | DisplayState\_Mc\_Cmd |
|  |  |
|  |  |
|  | |
| Configuration name | Configuration Value |
| Not Used | 0x00 |
| No Display Fault | 0x01 |
| Display Faulted | 0x02 |
| SDM Failure | 0x03 |

# Appendix: Reference Documents

|  |  |
| --- | --- |
| Reference # | Document Title |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |