



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

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Revision History

| Date | Version | | | Notes | |
|---------------------|---|---|--|-------------------------------------|--|
| | | | | 140163 | |
| June 28, 2021 | 1.0 | Initial Release | | | |
| | T | Г | | | |
| December 8, 2021 | 1.1 | | | T | |
| | 1011250/A-A | -ADAS Q-425378/B-Feature Based Message Protocol | | tmertiri:Update structure below | |
| | | gnal Mapping for Camera Showing 0x081B | | tmertiri:upgrade content and design | |
| | | DAVIP-REQ-425379/B-Feature Based Message Protocol | | tmertiri:upgrade content and design | |
| | | ng for TBA2 Pan 0x | 30827 Based Message Protocol | | |
| | Signal Mappi | ng for TBA2 Pan Er | nable 0x0828 | tmertiri:upgrade content and design | |
| | | 425381/B-Feature Ing for TBA2 Auto M | Based Message Protocol lode 0x0826 | tmertiri:upgrade content and design | |
| | DAVIP-REQ- | 425382/B-Feature Ing for TBA2 Zoom | Based Message Protocol | tmertiri:upgrade content and design | |
| | DAVIP-REQ- | 425383/B-Feature I | Based Message Protocol ureInPicture 0x082A | tmertiri:upgrade content and design | |
| | DAVIP-REQ- | 425384/B-Feature I | Based Message Protocol a Visual Park Aid Overlays | tmertiri:upgrade content and design | |
| | DAVIP-REQ- Signal Mappi | ng for All Overlays | | tmertiri:upgrade content and design | |
| | Signal Mappi | ng for Rear Camera | Based Message Protocol a Static Overlays 0x0818 | tmertiri:upgrade content and design | |
| | Signal Mappi | ng for Rear Camera | Based Message Protocol a Dynamic Overlays 0x0819 | tmertiri:upgrade content and design | |
| | Signal Mappi | ng for Manual Zoon | Based Message Protocol n 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 | | 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 | | | | |
| January 19, 2022 | 1.2 | | | | |
| | 1011250/B-A | DAS | | tmertiri: new req added | |
| | | 474938/A-Definition | | tmertiri: new req | |
| | DAVIP-REQ-425378/C-Feature Based Message Protocol Signal Mapping for Camera Showing 0x081B tmertiri:Add errors and Timeouts | | | | |
| | DAVIP-REQ- | 425379/C-Feature | Based Message Protocol | tmertiri:Add errors and Timeouts | |
| | Signal Mapping for TBA2 Pan 0x0827 DAVIP-REQ-425380/C-Feature Based Message Protocol Signal Mapping for TBA2 Pan Enable 0x0828 tmertiri:Add errors and Timeouts tmertiri:Add errors and Timeouts | | | | |
| | DAVIP-REQ- | 425381/C-Feature | Based Message Protocol | tmertiri:Add errors and Timeouts | |
| | Signal Mapping for TBA2 Auto Mode 0x0826 DAVIP-REQ-425382/C-Feature Based Message Protocol Signal Mapping for TBA2 Zoom 0x0829 timertin: Add errors and Timeouts 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 a Visual Park Aid Overlays | tmertiri:Add errors and Timeouts | |
| | DAVIP-REQ- | 425385/C-Feature | Based Message Protocol | 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 | | | | |
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| 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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1.1 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.

1.2 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.

1.2.1 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.

1.2.2 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 |



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|----------------------------------|-------|
| 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 |
| TRAILERSOO | 0x32 |
| TRAILERINTERIOR VIEW1 | 0x33 |
| TRAILERINTERIOR_VIEW1 | |
| - | 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 |



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| Rear Left Side Offset | 0x4A |
|------------------------|----------|
| Rear Right Side Offset | 0x4B |
| AUX IOD | 0x4C |
| Not Used | 04D-0x7D |
| Timeout | 0x7E |
| Error | 0x7F |

1.2.3 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 | |

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

Feature Name TBA2 Pan Eanble

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 | |

1.2.5 <u>DAVIP-REQ-425381/C-Feature Based Message Protocol Signal Mapping for TBA2 Auto Mode 0x0826</u>

Feature Name TBA2 Auto Mode

Feature ID 0x0826Signal Length 3 bit

VIP-CCPU TBA2AutoMode_Mc_St

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CCPU-VIP TBA2AutoMode_Mc_Cmd

| Configuration name | Configuration Value | |
|--------------------|---------------------|--|
| Off | 0x0 | |
| On | 0x1 | |
| Not Available | 0x2 | |
| Not Used | 0x3-0x5 | |
| Timeout | 0x6 | |
| Error | 0x7 | |

1.2.6 <u>DAVIP-REQ-425382/C-Feature Based Message Protocol Signal Mapping for TBA2 Zoom 0x0829</u>

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 | |

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

Feature Name Camera PictureInPicture

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 | |

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1.2.8 <u>DAVIP-REQ-425384/C-Feature Based Message Protocol Signal Mapping for Rear Camera Visual Park Aid Overlays</u> 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 |
|-------------------------|---------------------|
| Configuration name | Configuration Value |
| Off | 0x00 |
| On | 0x01 |
| Timeout | 0x02 |
| Error | 0x03 |

1.2.9 <u>DAVIP-REQ-425385/C-Feature Based Message Protocol Signal Mapping for All Overlays 0x0812</u>

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 |

1.2.10 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 |
|---------------------|---------------------|
| Configuration flame | Cornigulation value |
| Off | 0x00 |
| On | 0x01 |
| Timeout | 0x02 |

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Error 0x03

1.2.11 <u>DAVIP-REQ-425387/C-Feature Based Message Protocol Signal Mapping for Rear Camera Dynamic Overlays</u> 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 |

1.2.12 <u>DAVIP-REQ-425388/C-Feature Based Message Protocol Signal Mapping for Manual Zoom 0x081A</u>

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 | |

1.2.13 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 TRGZoomln_Mc_St CCPU-VIP TRGZoomln_Mc_Cmd

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| 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 |

1.2.14 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

| 0 | O. C. William |
|--------------------|---------------------|
| Configuration name | Configuration Value |
| Right Press | 0x00 |
| Left Press | 0x01 |
| Timeout | 0x02 |
| Error | 0x03 |

1.2.15 <u>DAVIP-REQ-425391/C-Feature Based Message Protocol Signal Mapping for TRG Button Enable 0x0824</u>

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 |

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

Feature Name TRG Auto Mode

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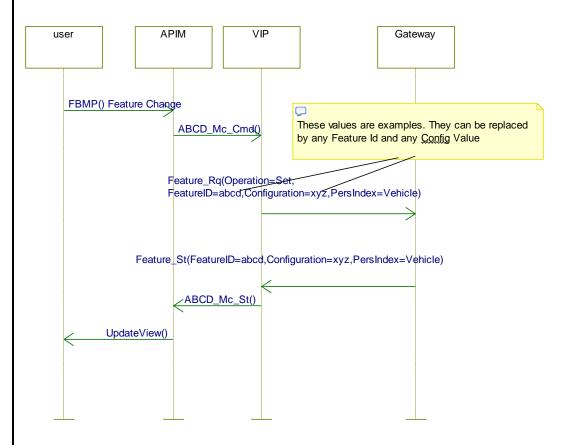


Feature ID 0x0825 Signal Length 3 bit

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 |

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



1.4 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.

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

Feature Name Display State
Feature ID 0x0030

| 1 datato 15 dixeoco | | |
|--|--|----------------|
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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 |



2 Appendix: Reference Documents

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