Team6_Tests

hamadeb_yakubup_memberea

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1. Indicator Board Requirements Tests

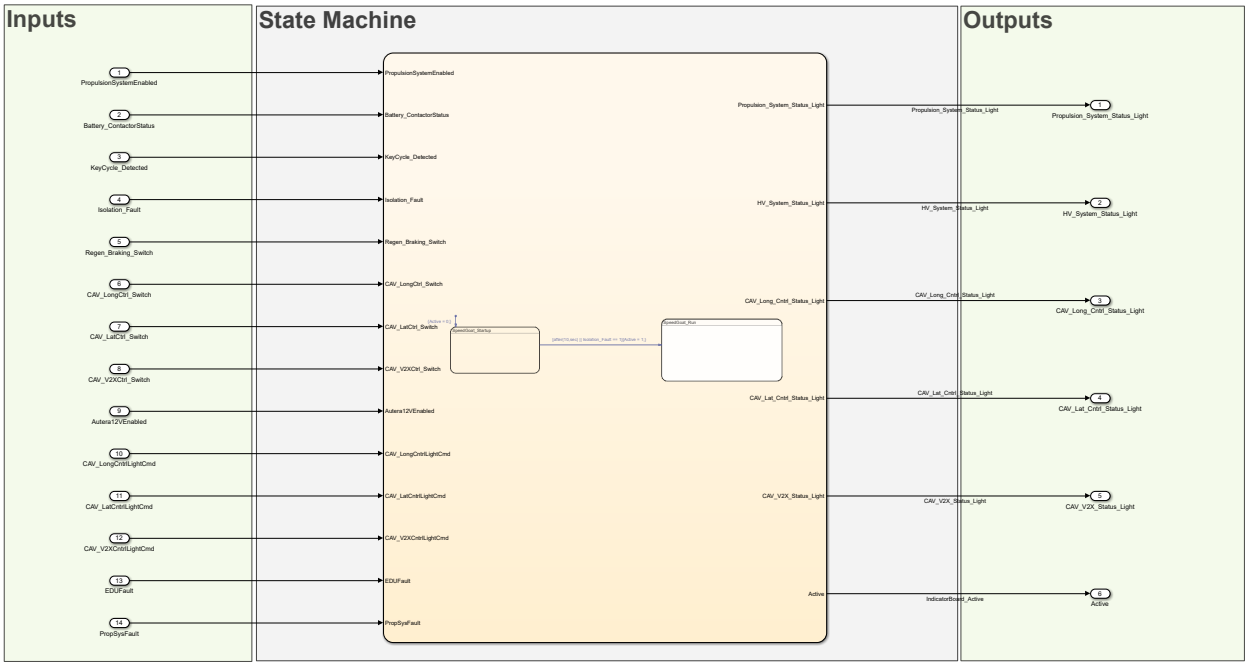
1.1. IB_1_PropulsionSystemLightON

Test Details

Requirements	• Description: IB 1 Propulsion System Status light ON when enabled and no faults are detected Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0

Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **PropulsionSystemEnabled == 1 & PropulsionSystemFault == 0** is true then, with a delay of at most **0.01 seconds**, **PropulsionSystemStatusLight == 1** must be true	

Symbols

Symbol	Scope	Metadata
PropulsionSystemEnabled	Signal	Name: From:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From Port Index: 1 Field/Element:
PropulsionSystemFault	Signal	Name: From12:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From12 Port Index: 1 Field/Element:
PropulsionSystemStatusLight	Signal	Name: Propulsion System LED:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/Propulsion System LED Port Index: 1

Symbol	Scope	Metadata
		Field/Element

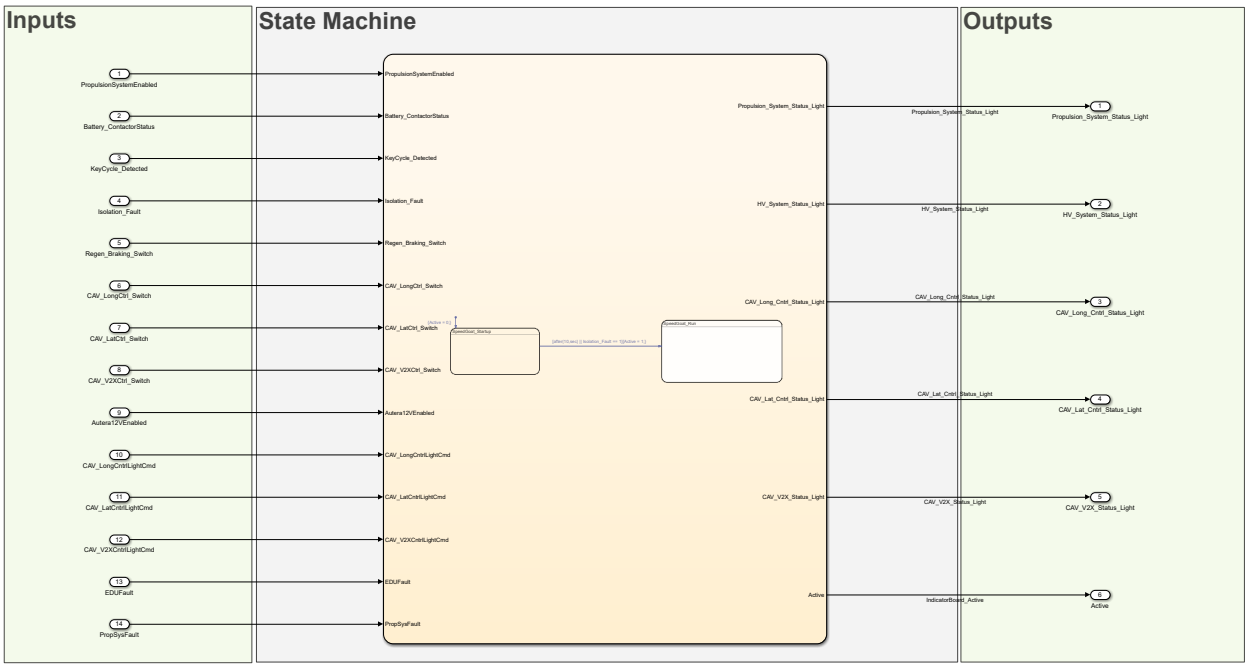
1.2. IB_2_PropulsionSystemLightOFF

Test Details

Requirements	• Description: IB 2 Propulsion System Status light OFF when disabled Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]

Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **PropulsionSystemEnabled == 0 & PropulsionSystem-**	

Enabled	Name	Definition	Requirements
		Fault == 0 is true then, with no delay, **PropulsionSystemStatusLight == 0** must be true	

Symbols

Symbol	Scope	Metadata
PropulsionSystemEnabled	Signal	Name: From:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From Port Index: 1 Field/Element:
PropulsionSystemFault	Signal	Name: From12:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From12 Port Index: 1 Field/Element:
PropulsionSystemStatusLight	Signal	Name: Propulsion System LED:1

Symbol	Scope	Metadata
		Path: IndicatorBoard/Chart/SpeedGoat_Run/Propulsion System LED Port Index: 1 Field/Element:

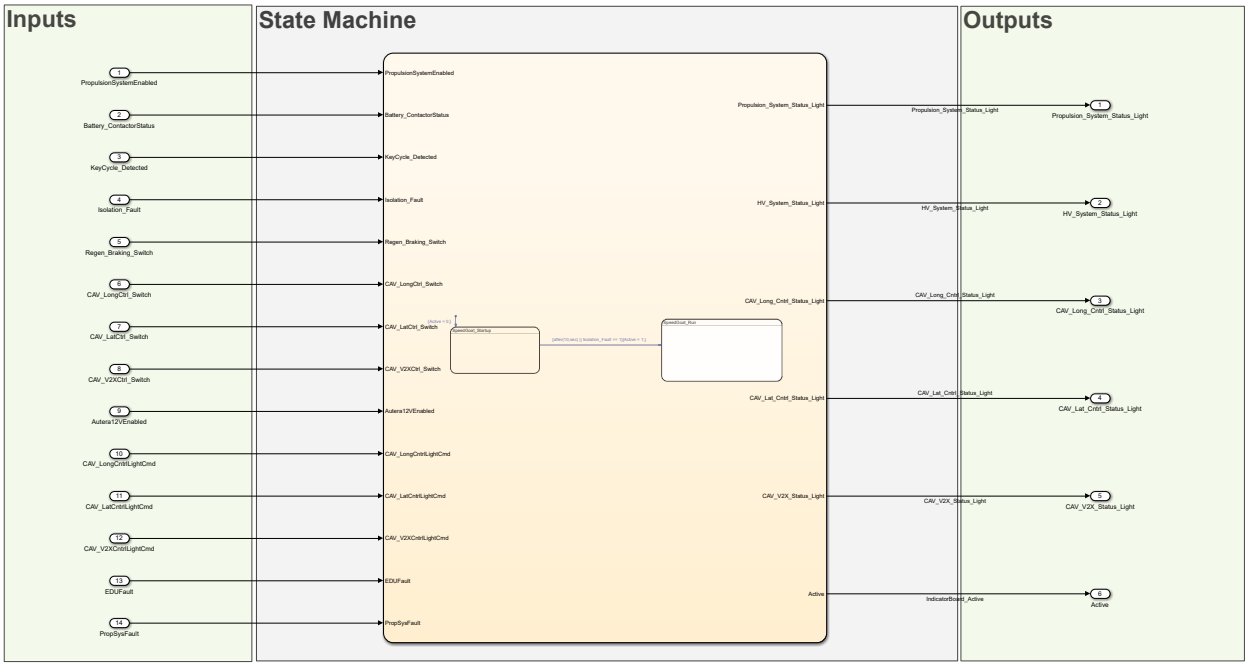
1.3. IB_3_PropulsionSystemLightFlashing

Test Details

Requirements	• Description: IB 3 Propulsion System Status light flashing when faults are detected Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **PropulsionSystemFault == 1** is true then, with a delay of at most **0.01 seconds**, **PropulsionSystemStatusLight == 2** must be true	

Symbols

Symbol	Scope	Metadata
PropulsionSystemFault	Signal	Name: From12:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From12 Port Index: 1

Symbol	Scope	Metadata
		Field/Element:
PropulsionSystemStatusLight	Signal	Name: Propulsion System LED:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/Propulsion System LED Port Index: 1 Field/Element:

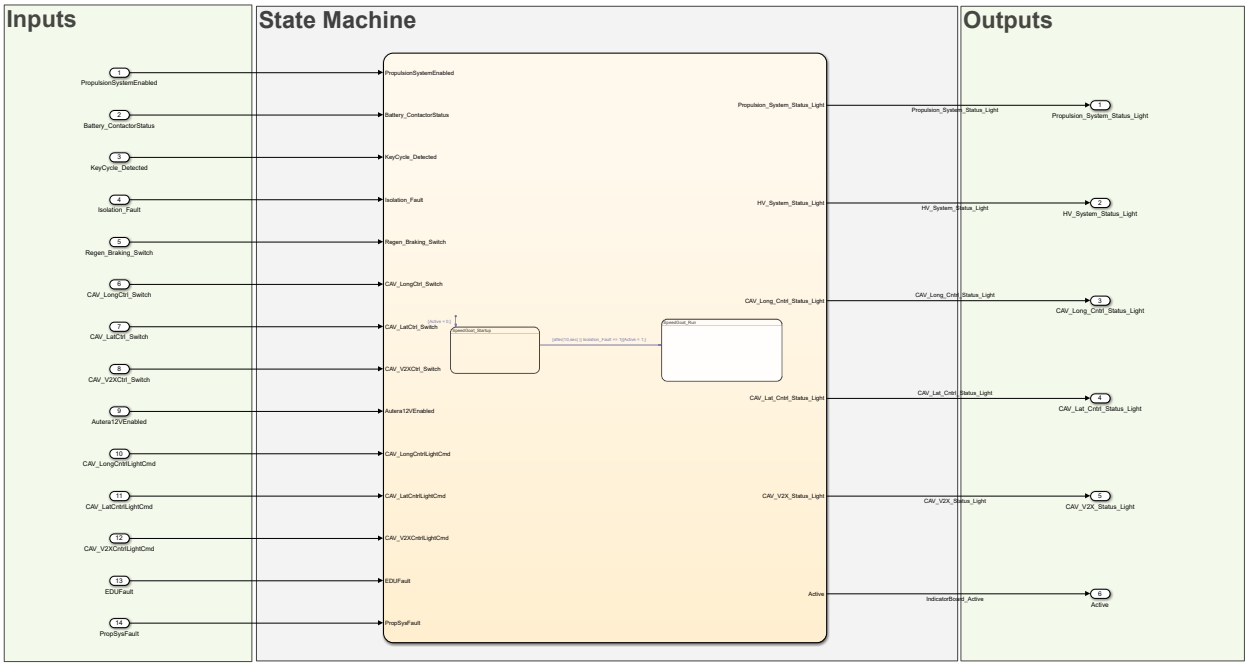
1.4. IB_4_HVSystemLightON

Test Details

Requirements	• Description: IB 4 HV System Status light is ON when battery contractor closed and no isolation faults detected Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Battery_ContactorStatus == 2 & IsoFault == 0** is true then, with no delay, **HVSystemLightStatus == 1** must be true	

Symbols

Symbol	Scope	Metadata
Battery_ContactorStatus	Signal	Name: From1:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From1 Port Index: 1

Symbol	Scope	Metadata
		Field/Element:
IsoFault	Signal	Name: From2:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From2 Port Index: 1 Field/Element:
HVSystemLight-Status	Signal	Name: KeyCycle_Detected:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/KeyCycle_Detected Port Index: 1 Field/Element:

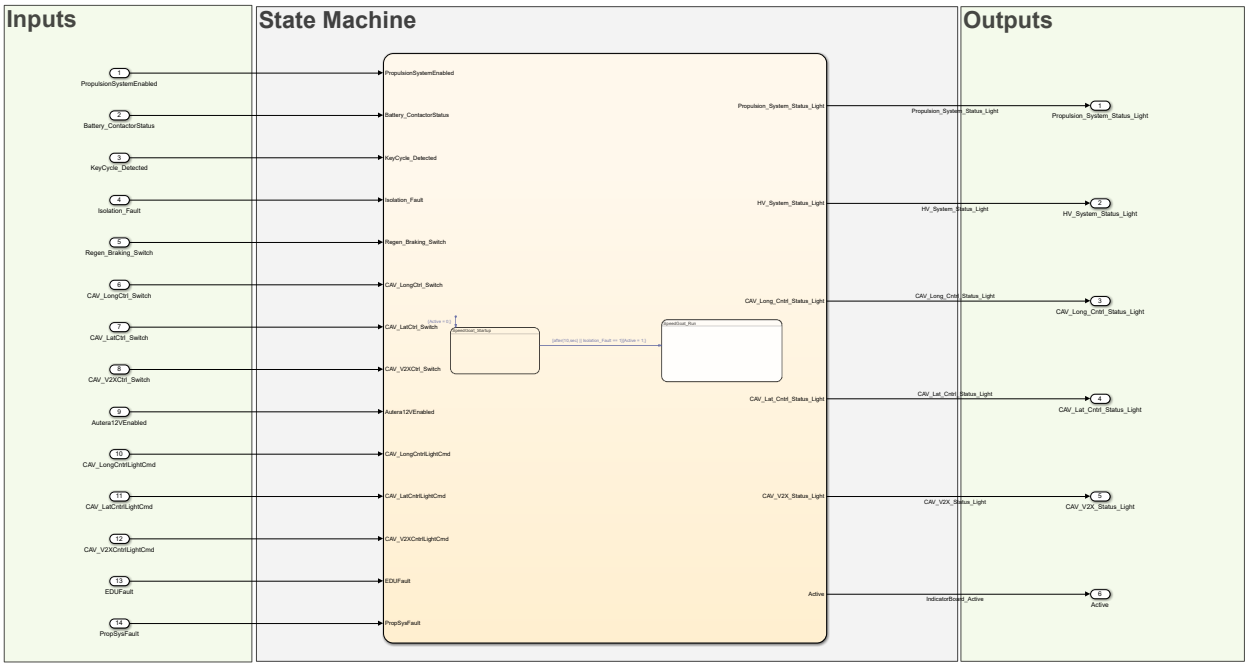
1.5. IB_5_HVSystemLightOFF

Test Details

Requirements	• Description: IB 5 HV System Status light OFF when battery contactors are open Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Battery_ContactorStatus == 0 & IsoFault == 0** is true then, with no delay, **HVSystemLightStatus == 0** must be true	

Symbols

Symbol	Scope	Metadata
Battery_Contac-torStatus	Signal	Name: From1:1 Path: IndicatorBoard/Chart/ SpeedGoat_Run/From1 Port Index: 1 Field/Element:
IsoFault	Signal	Name: From2:1 Path: IndicatorBoard/Chart/ SpeedGoat_Run/From2 Port Index: 1 Field/Element:
HVSystemLight-Status	Signal	Name: HV System LED:1 Path: IndicatorBoard/Chart/ SpeedGoat_Run/HV System LED Port Index: 1

Symbol	Scope	Metadata
		Field/Element

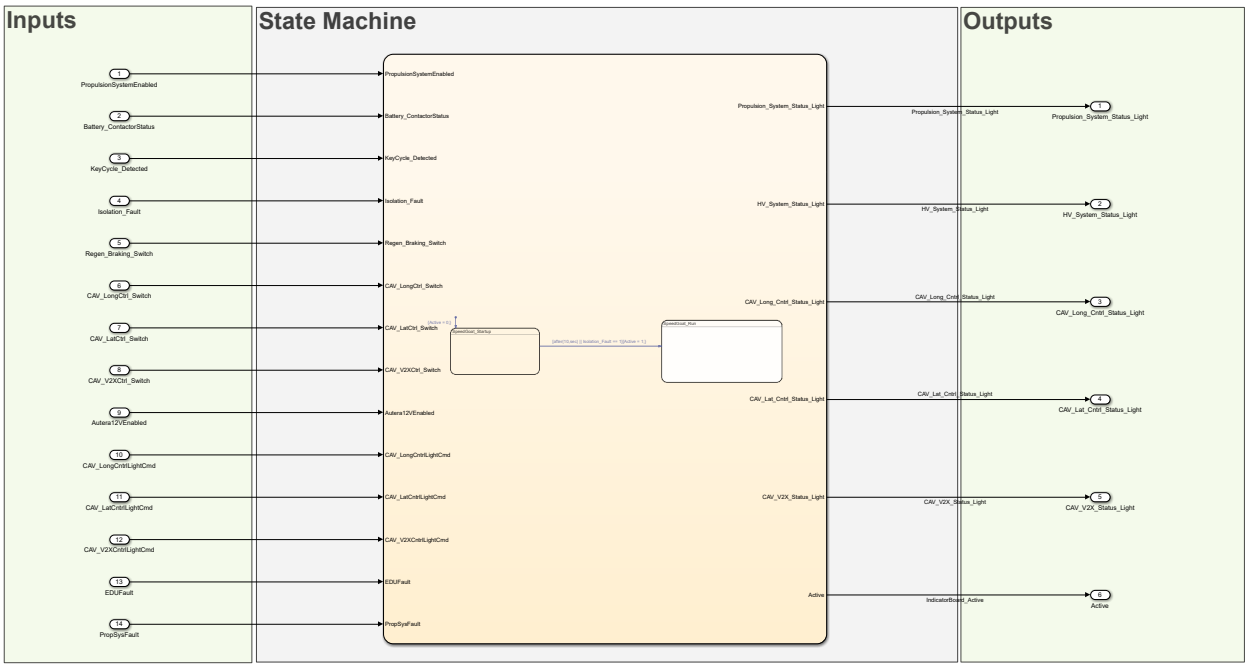
1.6. IB_6_HVSystemLightFlashing

Test Details

Requirements	• Description: IB 6 HV System Status light flashing when ground fault detected Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]

Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Inputs not mapped.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assess-ment1	At any point of time, whenever **IsoFault == 1** is true then, with no delay, **HVSys-temLightStatus == 2** must be true	

Symbols

Symbol	Scope	Metadata
IsoFault	Signal	Name: From2:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From2 Port Index: 1 Field/Element:
HVSystemLightStatus	Signal	Name: HV System LED:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/HV System LED Port Index: 1 Field/Element:

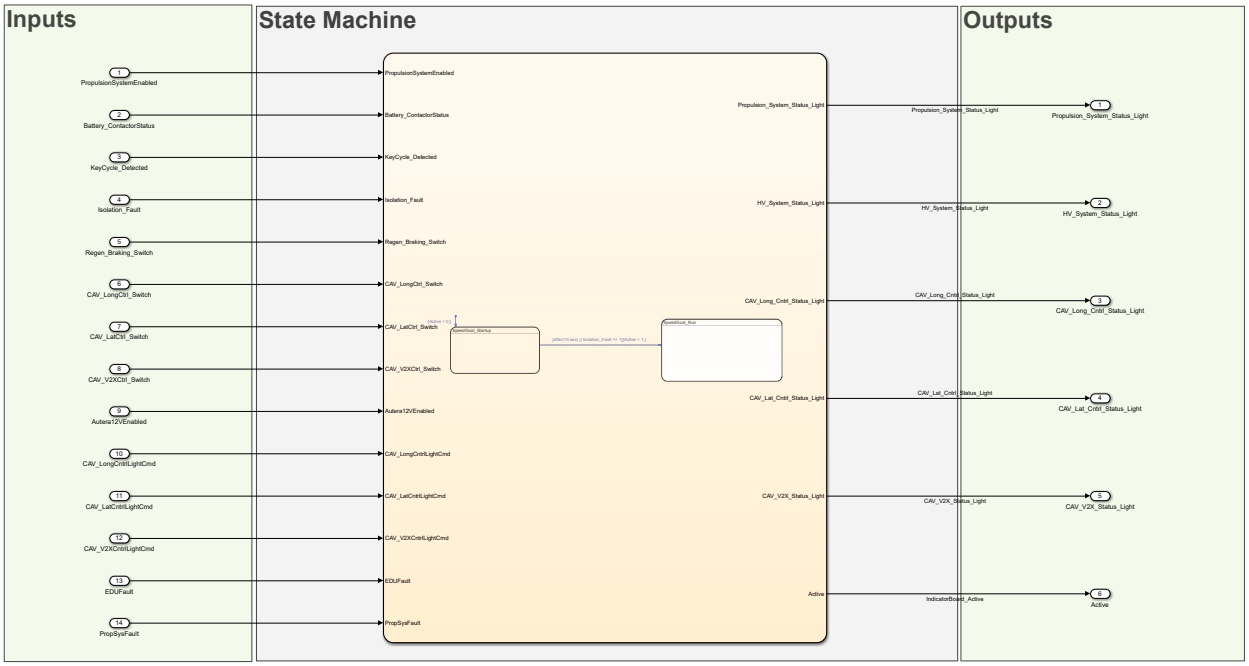
1.7. IB_7_LongitudinalControlSystemLightON

Test Details

Requirements	• Description: IB 7 CAV Longitudinal Status light is ON when switch is ON and CAV supervisory controller is enabled Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **LongitudinalControlLightCommand == 1 & LongitudinalControlSystemSwitch == 1 & Autera == 1** is true then, with a delay of at most **0.01 seconds**, **LongitudinalControlSystemLight == 1** must be true	

Symbols

Symbol	Scope	Metadata
LongitudinalControlSystemLight	Signal	Name: CAV_Long_Cntrl_Status_Light Path: IndicatorBoard/Chart

Symbol	Scope	Metadata
		Port Index: 3 Field/Element:
Longitudinal-ControlSys-temSwitch	Signal	Name: CAV_LongCtrl_Switch:1 Path: Indicator-Board/CAV_LongCtrl_Switch Port Index: 1 Field/Element:
Longitudinal-ControlLight-Command	Signal	Name: CAV_LongCntrlLightCmd:1 Path: IndicatorBoard/CAV_Long-CntrlLightCmd Port Index: 1 Field/Element:
Autera	Signal	Name: Autera12VEnabled:1

Symbol	Scope	Metadata
		Path: IndicatorBoard/Autera12VEnabled Port Index: 1 Field/Element:

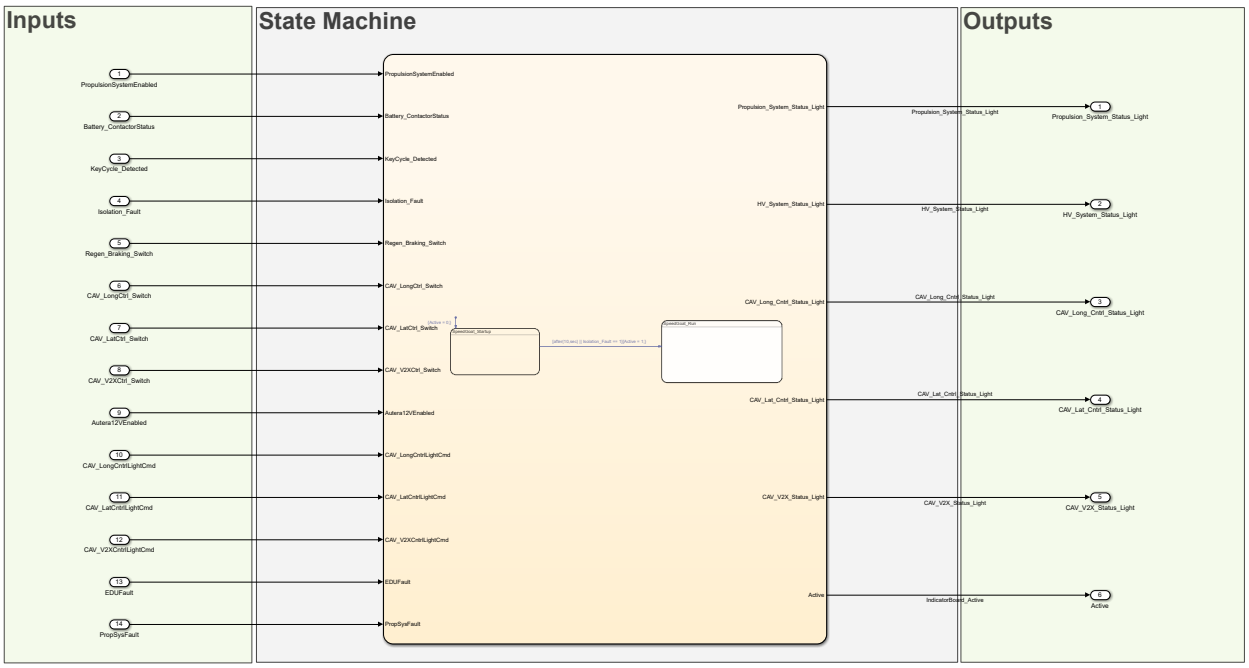
1.8. IB_8_LongitudinalControlSystemLightOFF

Test Details

Requirements	• Description: IB 8 CAV Longitudinal Status light is OFF when switch is OFF Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Autera12VEnbld == 0 | CAV_LongCntrlLightCmd == 0 | CAV_Long_Cntrl_Switch == 0** is true then, with a delay of at most **0.01 seconds**, **LongitudinalControlSystemLight == 0** must be true	

Symbols

Symbol	Scope	Metadata
Autera12VEnbld	Signal	Name: From5:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From5 Port Index: 1 Field/Element:
CAV_LongCntrlLightCmd	Signal	Name: From7:1 Path: IndicatorBoard/Chart/

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td></td><td></td><td><table>
<tr><td></td><td>SpeedGoat_Run/
From7</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>CAV_Long_Cntrl_Switch</td><td>Sig-
nal</td><td><table>
<tr><td>Name</td><td>From3:1</td></tr>
<tr><td>Path</td><td>Indicator-
Board/Chart/
SpeedGoat_Run/
From3</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>LongitudinalControlSys-
temLight</td><td>Sig-
nal</td><td><table>
<tr><td>Name</td><td>CAV Longitudinal Con-
trol Status Light:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/
SpeedGoat_Run/CAV
Longitudinal Control
Status Light</td></tr>
<tr><td>Port In-
dex</td><td>1</td></tr>
</table></td></tr>
</table>

Symbol	Scope	Metadata
		Field/ Element

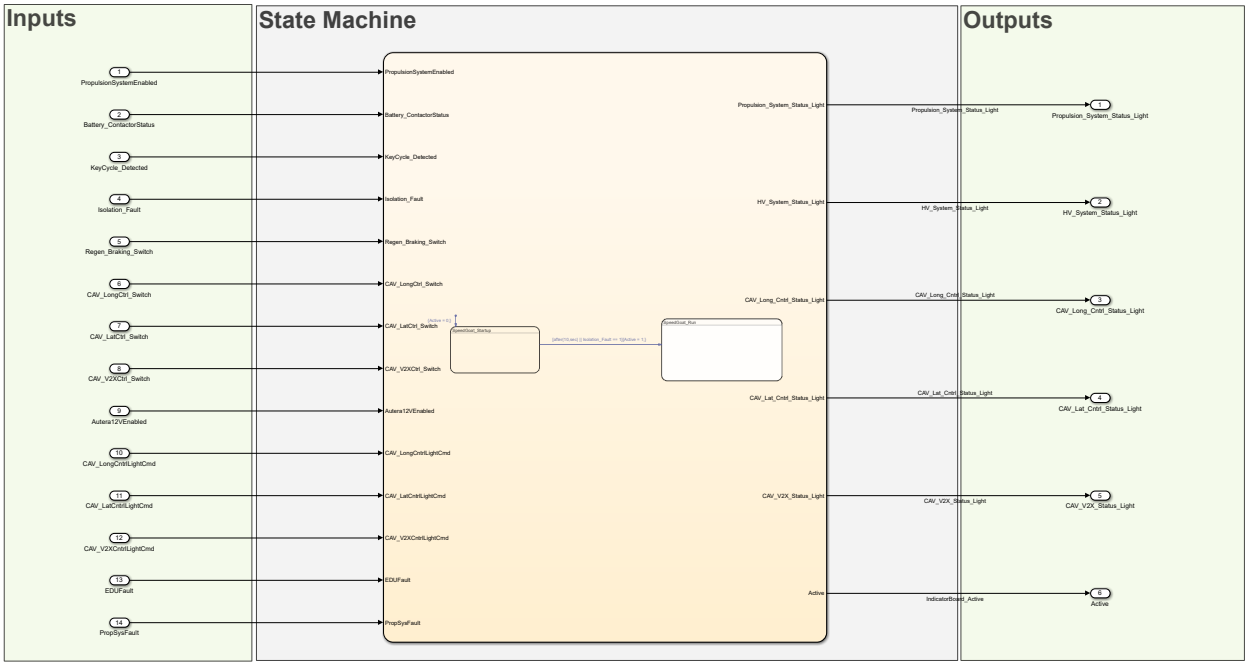
1.9. IB_9_LongitudinalControlSystemLightFLASHING

Test Details

Requirements	• Description: IB 9 CAV Longitudinal Status light is flashing when faults detected Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Autera12VEnbld == 1 & CAV_Long_Cntrl_Switch == 1 & CAV_LongCntrlLightCmd == 2** is true then, with a delay of at most **0.1 seconds**, **LongitudinalControlSystemLight == 2** must be true	

Symbols

Symbol	Scope	Metadata
Autera12VEnbld	Signal	Name: From5:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From5 Port Index: 1 Field/Element:
CAV_Long_Cntrl_Switch	Signal	Name: From3:1 Path: IndicatorBoard/Chart/

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td></td><td></td><td><table>
<tr><td></td><td>SpeedGoat_Run/
From3</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>CAV_LongCntrlLightCmd</td><td>Sig-
nal</td><td><table>
<tr><td>Name</td><td>From7:1</td></tr>
<tr><td>Path</td><td>Indicator-
Board/Chart/
SpeedGoat_Run/
From7</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>LongitudinalControlSys-
temLight</td><td>Sig-
nal</td><td><table>
<tr><td>Name</td><td>CAV Longitudinal Con-
trol Status Light:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/
SpeedGoat_Run/CAV
Longitudinal Control
Status Light</td></tr>
<tr><td>Port In-
dex</td><td>1</td></tr>
</table></td></tr>
</table>

Symbol	Scope	Metadata
		Field/ Element

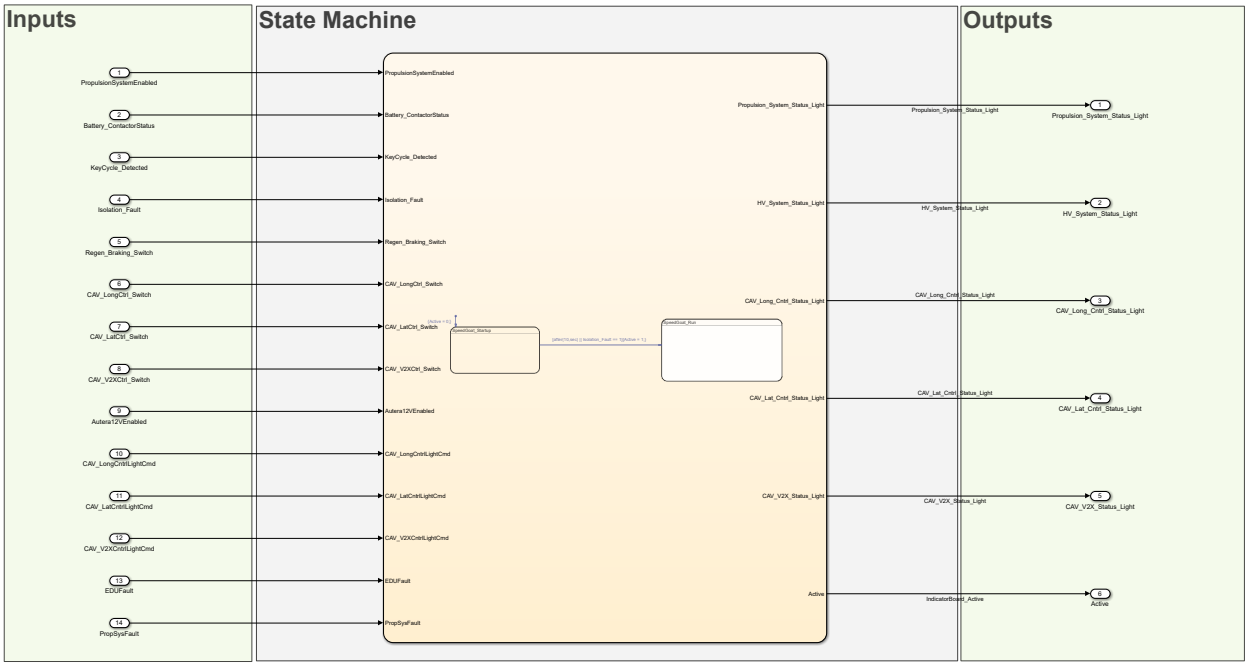
1.10. IB_10_CAVLateralControlStatusON

Test Details

Requirements	• Description: IB 10 CAV Lateral Control Status light ON when switch is ON and CAV supervisory control is enabled Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Autera12VEnbld == 1 & CAV_Lat_Cntrl_Switch == 1 & CAV_LatCntrlLightCmd == 1** is true then, with a delay of at most **0.1 seconds**, **CAVLateralControlStatusON == 1** must be true	

Symbols

Symbol	Scope	Metadata
Autera12VEnbld	Signal	Name: From6:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From6 Port Index: 1 Field/Element:
CAV_LatCntrlLightCmd	Signal	Name: From8:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From8

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td></td><td></td><td><table>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>CAV_Lat_Cntrl_Switch</td><td>Signal</td><td><table>
<tr><td>Name</td><td>From4:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/SpeedGoat_Run/From4</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>CAVLateralControlStatusON</td><td>Signal</td><td><table>
<tr><td>Name</td><td>CAV Lateral Control Status Light:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/SpeedGoat_Run/CAV Lateral Control Status Light</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
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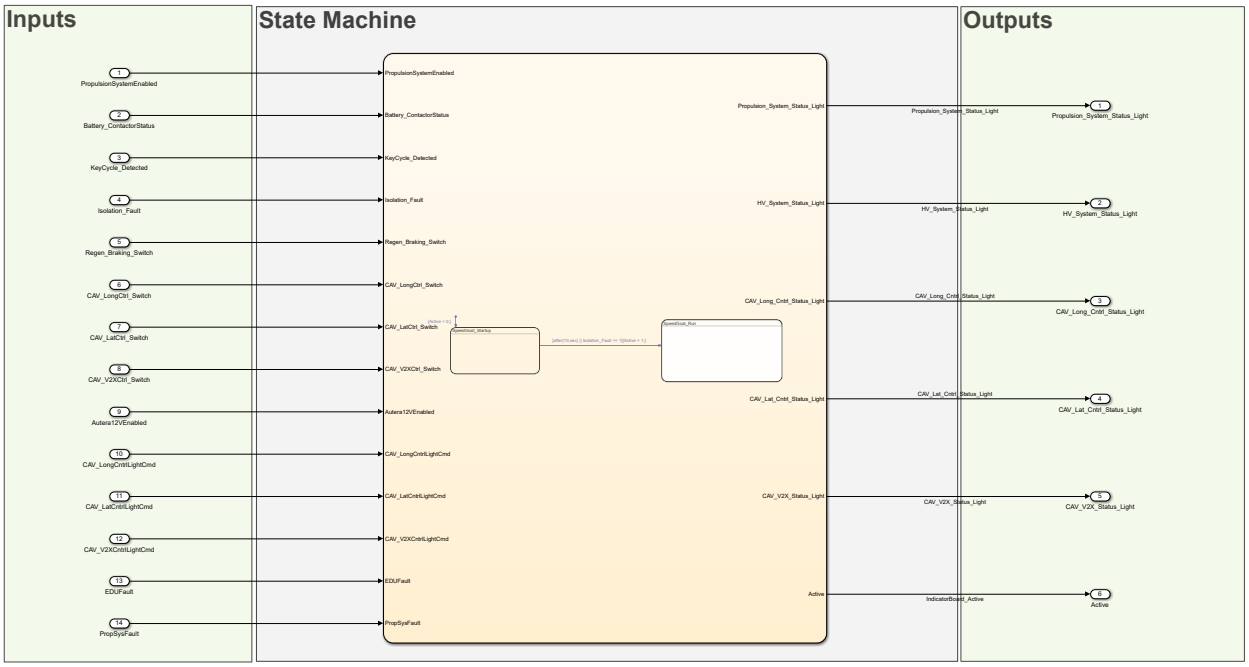
1.11. IB_11_CAVLateralControlStatusOFF

Test Details

Requirements	• Description: IB 11 CAV Lateral Control Status light is OFF when the switch is OFF Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Autera12VEnbld == 0 | CAV_LatCntrlLightCmd == 0 | CAV_Lat_Cntrl_Switch == 0** is true then, with a delay of at most **0.1 seconds**, **CAVLateralControlStatusOFF == 0** must be true	

Symbols

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td>Autera12VEnbld</td><td>Signal</td><td><table>
<tr><td>Name</td><td>From6:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/
SpeedGoat_Run/
From6</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>CAV_LatCntrlLightCmd</td><td>Signal</td><td><table>
<tr><td>Name</td><td>From8:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/
SpeedGoat_Run/
From8</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table></td></tr>
<tr><td>CAV_Lat_Cntrl_Switch</td><td>Signal</td><td><table>
<tr><td>Name</td><td>From4:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/
SpeedGoat_Run/
From4</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td></td><td></td><td><table><tr><td>Port Index</td><td>1</td></tr><tr><td>Field/Element</td><td></td></tr></table></td></tr>
<tr><td>CAVLateralControlStatusOFF</td><td>Signal</td><td><table><tr><td>Name</td><td>CAV Lateral Control Status Light:1</td></tr><tr><td>Path</td><td>IndicatorBoard/Chart/SpeedGoat_Run/CAV Lateral Control Status Light</td></tr><tr><td>Port Index</td><td>1</td></tr><tr><td>Field/ Element</td><td></td></tr></table></td></tr>
</table>

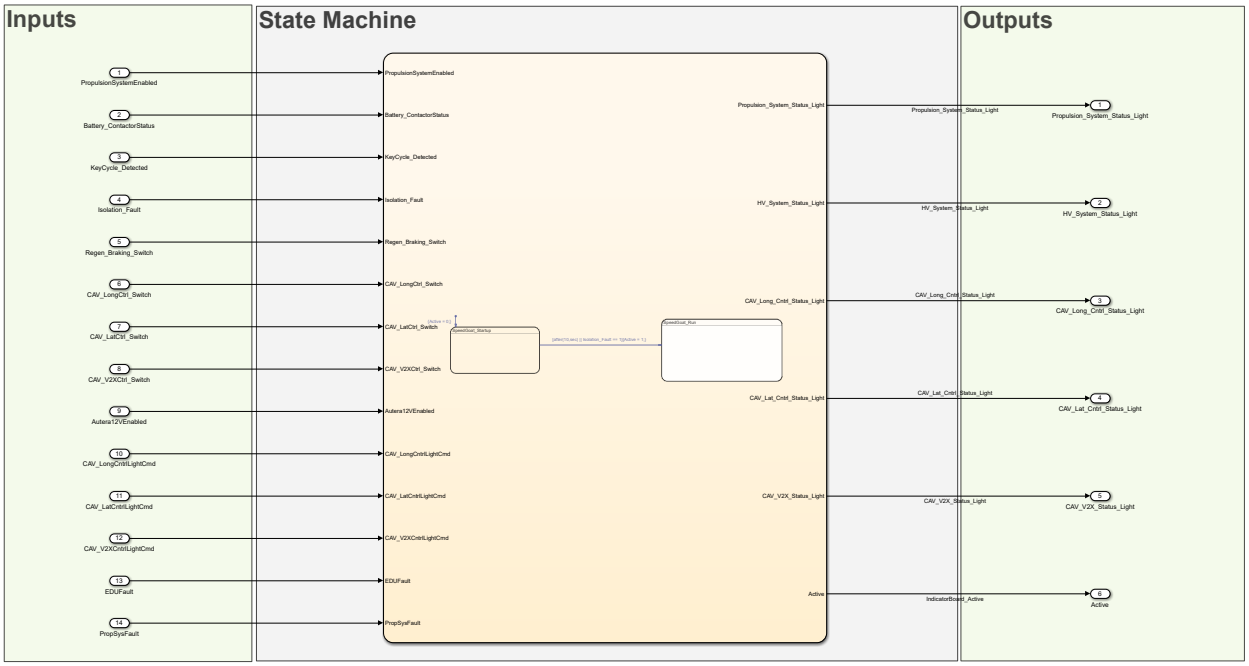
1.12. IB_12_CAVLateralControlStatusFLASHING

Test Details

Requirements	• Description: IB 12 CAV Lateral Control Status light flashing when faults detected Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Autera12VEnbld == 1 & CAV_Lat_Cntrl_Switch == 1 & CAV_LatCntrlLightCmd == 2** is true then, with a delay of at most **0.1 seconds**, **CAVLateralControlStatusOFF == 2** must be true	

Symbols

Symbol	Scope	Metadata
Autera12VEnbld	Signal	Name: From6:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From6

Symbol	Scope	Metadata
		Port Index: 1 Field/Element:
CAV_Lat_Cntrl_Switch	Signal	Name: From4:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From4 Port Index: 1 Field/Element:
CAV_LatCntrlLightCmd	Signal	Name: From8:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/From8 Port Index: 1 Field/Element:

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td>CAVLateralControlStatusOFF</td><td>Signal</td><td>
<table>
<tr><td>Name</td><td>CAV Lateral Control Status Light:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart/SpeedGoat_Run/CAV Lateral Control Status Light</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/ Element</td><td></td></tr>
</table>
</td></tr>
</table>

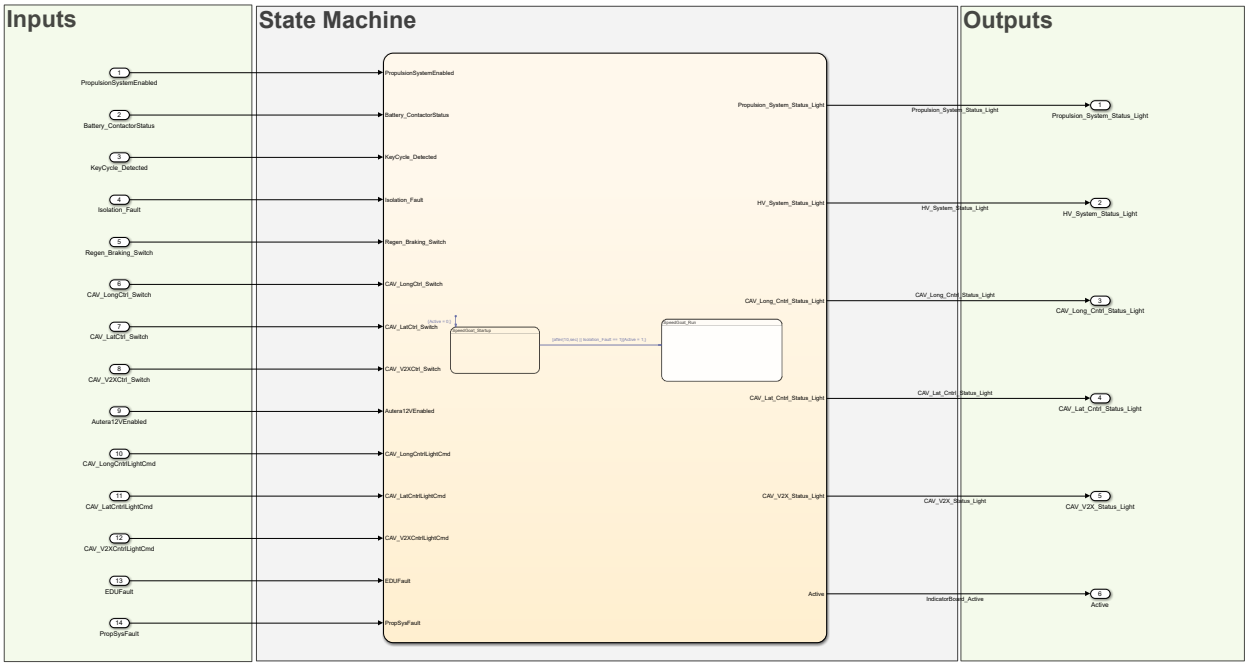
1.13. IB_13_CAVV2XStatusON

Test Details

Requirements	• Description: IB 13 CAV V2X Status light ON when V2X data can be utilized Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **V2XSwitch == 1 & Autera == 1 & ControlLightCmd == 1** is true then, with a delay of at most **0.01 seconds**, **V2XStatusLight == 1** must be true	

Symbols

Symbol	Scope	Metadata
V2XSwitch	Signal	Name: CAV_V2XCtrl_Switch:1 Path: Indicator-Board/CAV_V2XCtrl_Switch Port Index: 1

Symbol	Scope	Metadata
		Field/Element:
V2XStatus-Light	Signal	Name: CAV_V2X_Status_Light Path: IndicatorBoard/Chart Port Index: 5 Field/Element:
Autera	Signal	Name: Autera12VEnabled:1 Path: IndicatorBoard/Autera12VEnabled Port Index: 1 Field/Element:
Control-LightCmd	Signal	Name: CAV_V2XCntrlLightCmd:1 Path: IndicatorBoard/CAV_V2XCntrlLightCmd Port Index: 1

Symbol	Scope	Metadata
		Field/Element

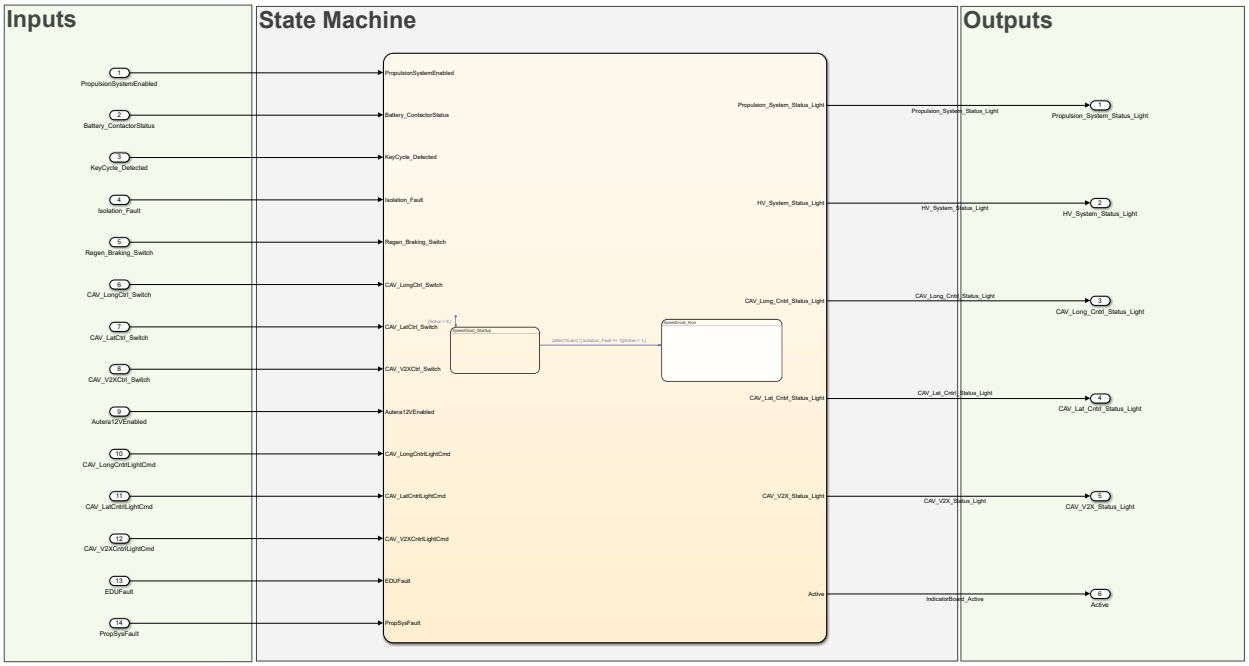
1.14. IB_14_CAVV2XStatusOFF

Test Details

Requirements	• Description: IB 14 CAV V2X Status light OFF when switch is OFF Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]

Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **V2XSwitch == 0** is true then, with a delay of at most	

Enabled	Name	Definition	Requirements
		0.01 seconds, **V2XStatusLight == 0** must be true	

Symbols

Symbol	Scope	Metadata
V2XSwitch	Signal	Name: CAV_V2XCtrl_Switch:1 Path: Indicator-Board/CAV_V2XCtrl_Switch Port Index: 1 Field/Element:
V2XStatus-Light	Signal	Name: CAV V2X Control Status Light:1 Path: IndicatorBoard/Chart/SpeedGoat_Run/CAV V2X Control Status Light Port Index: 1 Field/Element:

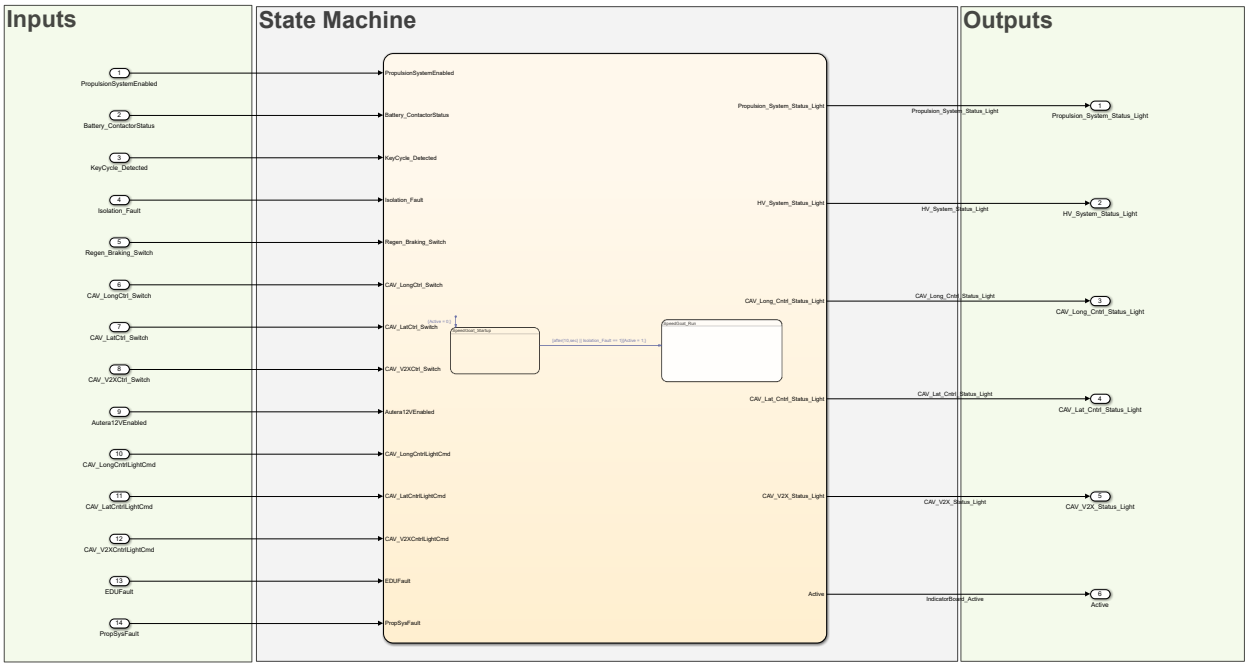
1.15. IB_15_CAVV2XStatusFLASHING

Test Details

Requirements	• Description: IB 15 CAV V2X Status light flashing when faults detected Document: IndicatorBoard.slreqx

System Under Test

Model Name: IndicatorBoard



Simulation Settings Overrides

Simulation Mode	[Model Settings]
Releases	Current
Start Time	0
Stop Time	22

External Inputs

Name	File Path	Status
IB_in_r1_test1.mat (Active)	C:\Users\valca\Documents\ECOCAR\pcm-dev-challenge-y3\IB_in_r1_test1.mat	Successfully mapped inputs.

Output Triggers

Start Logging	On simulation start
Stop Logging	When simulation stops
Shift time to zero	True

Configuration Settings Overrides

Configuration settings	Do not override model settings

Logical and Temporal Assessments

Assessments

Enabled	Name	Definition	Requirements
True	Assessment1	At any point of time, whenever **Autera == 1 & V2XSwitch == 1 & V2XControlLightCmd == 2** is true then, with a delay of at most **0.01 seconds**, **V2XStatusLight == 2** must be true	

Symbols

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td>Autera</td><td>Signal</td><td>
<table>
<tr><td>Name</td><td>Autera12VEnabled:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Autera12VEnabled</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table>
</td></tr>
<tr><td>V2XStatus-Light</td><td>Signal</td><td>
<table>
<tr><td>Name</td><td>CAV_V2X_Status_Light</td></tr>
<tr><td>Path</td><td>IndicatorBoard/Chart</td></tr>
<tr><td>Port Index</td><td>5</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table>
</td></tr>
<tr><td>V2XSwitch</td><td>Signal</td><td>
<table>
<tr><td>Name</td><td>CAV_V2XCtrl_Switch:1</td></tr>
<tr><td>Path</td><td>IndicatorBoard/CAV_V2XCtrl_Switch</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Symbol</th><th>Scope</th><th>Metadata</th></tr>
<tr><td>V2XControl-LightCmd</td><td>Signal</td><td>
<table>
<tr><td>Name</td><td>CAV_V2XCntrlLightCmd:1</td></tr>
<tr><td>Path</td><td>Indicator-Board/CAV_V2XCntrlLightCmd</td></tr>
<tr><td>Port Index</td><td>1</td></tr>
<tr><td>Field/Element</td><td></td></tr>
</table>
</td></tr>
</table>