SPSys

Package in package 'EARL'

SPSys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

SPSys packages relations diagram

Package diagram in package 'SPSys'

SPSys packages relations
Version 1.0
yoyek created on 2023-03-07. Last modified 2023-03-07

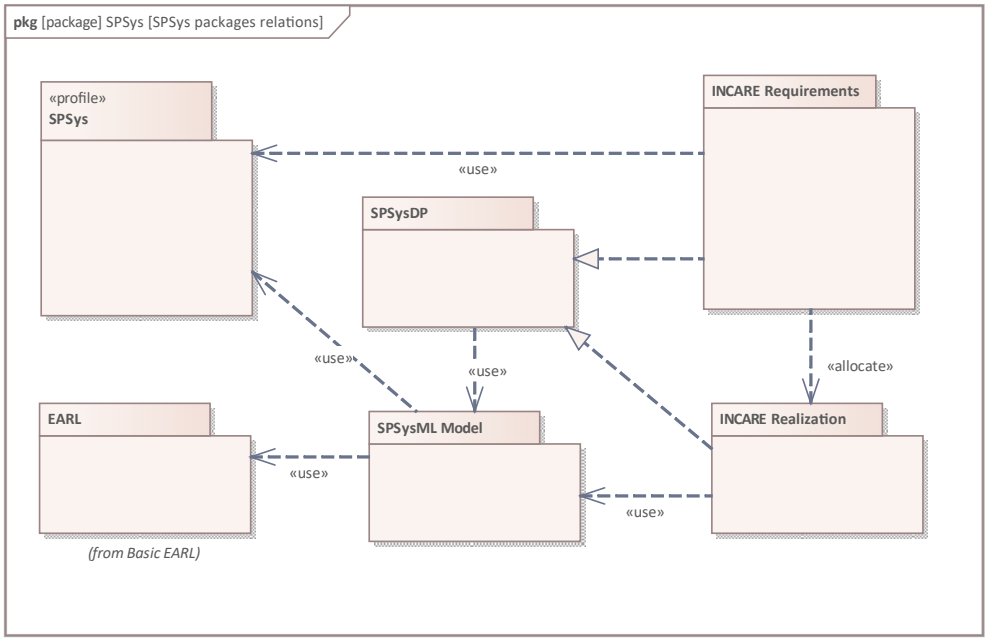

Figure 1: SPSys packages relations

SPSys

Package in package 'EARL'

SPSys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

EARL

Package in package 'Basic EARL'

EARL
Version 1.0 Phase 1.0 Proposed
mwegiere created on 2019-12-02. Last modified 2022-05-26

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

Realization «realize» from Exemplary EARL Realization to EARL

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Realization «realize» Source -> Destination
From: Exemplary EARL Realization : Package, Public
To: EARL : Package, Public

ASSOCIATIONS

Realization (direction: Source -> Destination) «realize»

Source: Public (Package) Exemplary EARL Realization Target: Public (Package) EARL

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

INCARE Requirements

Package in package 'SPSys'

INCARE Requirements
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-04-16

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization
[Direction is 'Source -> Destination'.]

Realization from INCARE Requirements to SPSysDP
[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

Usage Source -> Destination
From: INCARE Requirements : Package, Public
To: SPSys : Profile, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

SPSys

Profile «profile» in package 'SPSys'

SPSys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-11. Last modified 2023-03-02

CONNECTORS

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

Usage Source -> Destination
From: INCARE Requirements : Package, Public
To: SPSys : Profile, Public

SPSysDP

Package in package 'SPSys'

SPSysDP
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP
[Direction is 'Source -> Destination'.]

Realization from INCARE Requirements to SPSysDP
[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

CONNECTORS
Usage Source -> Destination From: INCARE Realization : Package, Public To: SPSysML Model : Package, Public
Usage Source -> Destination From: SPSysDP : Package, Public To: SPSysML Model : Package, Public

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

LINKS TO OTHER PACKAGES	
Usage from 'INCARE Realization' Package to 'SPSysML Model' Package	Direction: Source -> Destination
Realization from 'INCARE Realization' Package to 'SPSysDP' Package	Direction: Source -> Destination
Allocate from 'INCARE Requirements' Package to 'INCARE Realization' Package	Direction: Source -> Destination

general_specific_blocks_bdd diagram

SysML Block Definition diagram in package 'INCARE Realization'

general_specific_blocks_bdd
Version 1.0
Tomcio created on 2022-07-12. Last modified 2022-07-23

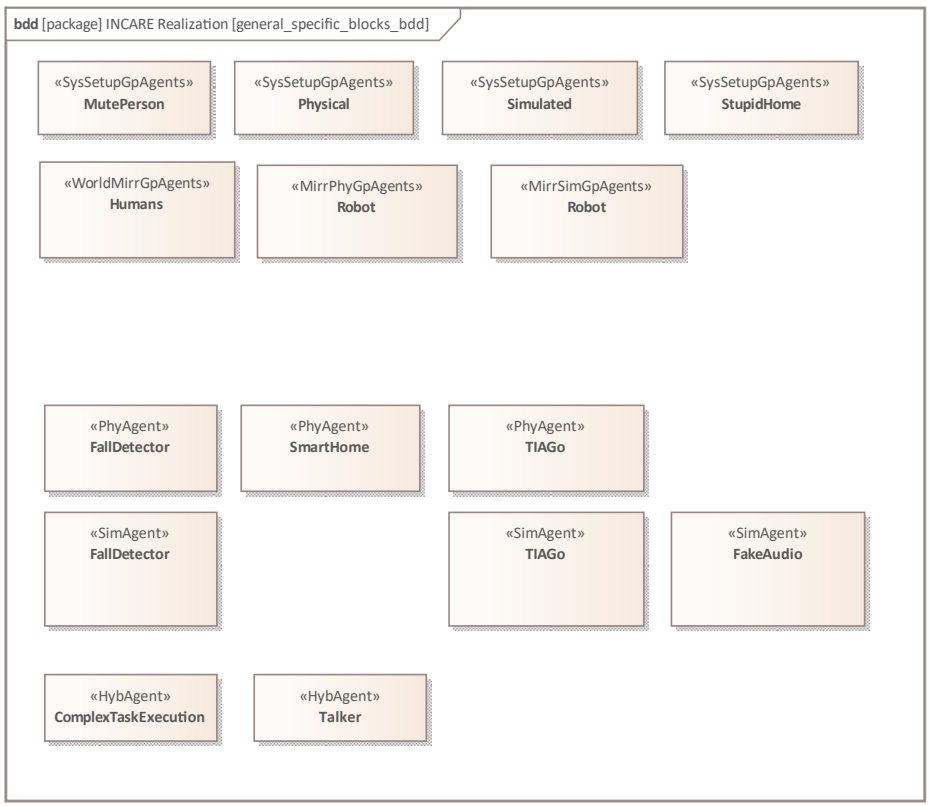

Figure 2: general_specific_blocks_bdd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

human_and_robot_system_bdd diagram

SysML Block Definition diagram in package 'INCARE Realization'

human_and_robot_system_bdd
Version 1.0
yoyek created on 2023-03-02. Last modified 2023-03-02

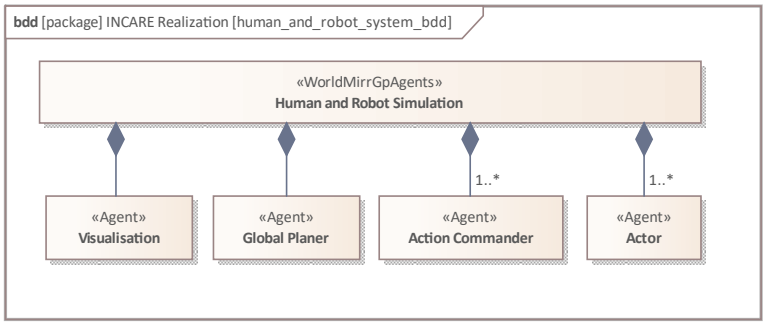

Figure 3: human_and_robot_system_bdd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

human_fell_general_sd diagram

Sequence diagram in package 'INCARE Realization'

human_fell_general_sd
Version 1.0
Tomcio created on 2022-04-22. Last modified 2022-07-10

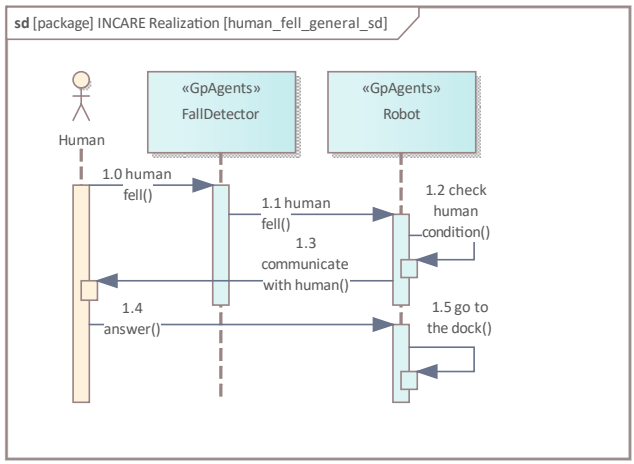

Figure 4: human_fell_general_sd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

INTERACTION MESSAGES

1.0 'human fell' from 'Human' sent to 'FallDetector'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

1.1 'human fell' from 'FallDetector' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.2 'check human condition' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.3 'communicate with human' from 'Robot' sent to 'Human'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.4 'answer' from 'Human' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.5 'go to the dock' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

human_fell_physical_sd diagram

Sequence diagram in package 'INCARE Realization'

human_fell_physical_sd
Version 1.0
yoyek created on 2022-04-22. Last modified 2022-07-12

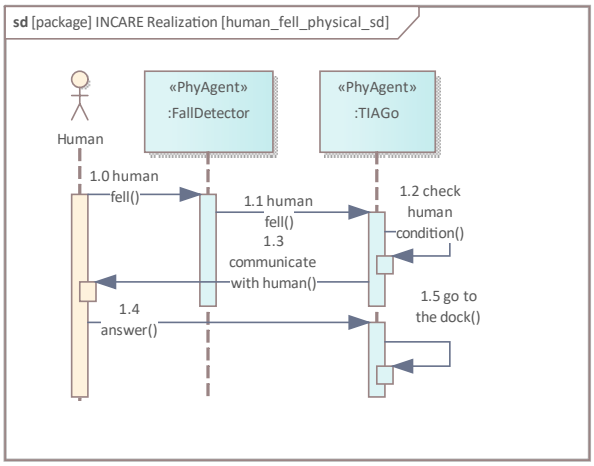

Figure 5: human_fell_physical_sd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

INTERACTION MESSAGES

1.0 'human fell' from 'Human' sent to ':FallDetector'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.1 'human fell' from ':FallDetector' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.2 'check human condition' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.3 'communicate with human' from ':TIAGo' sent to 'Human'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.4 'answer' from 'Human' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.5 'go to the dock' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

human_fell_simulated_sd diagram

Sequence diagram in package 'INCARE Realization'

human_fell_simulated_sd
Version 1.0
yoyek created on 2022-04-22. Last modified 2022-07-10

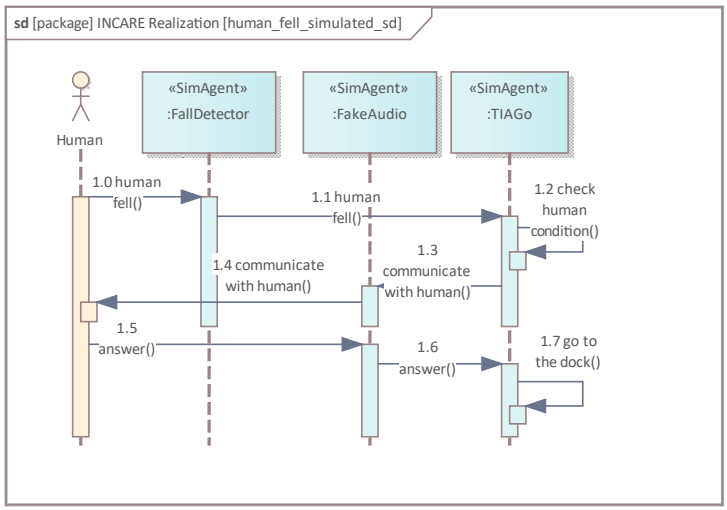

Figure 6: human_fell_simulated_sd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

ASSOCIATIONS

INTERACTION MESSAGES
1.0 'human fell' from 'Human' sent to ':FallDetector'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]
1.1 'human fell' from ':FallDetector' sent to ':TIAGo'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]
1.2 'check human condition' from ':TIAGo' sent to ':TIAGo'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]
1.3 'communicate with human' from ':TIAGo' sent to ':FakeAudio'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]
1.4 'communicate with human' from ':FakeAudio' sent to 'Human'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]
1.5 'answer' from 'Human' sent to ':FakeAudio'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]
1.6 'answer' from ':FakeAudio' sent to ':TIAGo'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]
1.7 'go to the dock' from ':TIAGo' sent to ':TIAGo'. Synchronous Call. Returns void. [Return is False. Iteration is False. New group is False.]

mute_person_sega_ibd diagram

SysML Internal Block diagram in package 'INCARE Realization'

mute_person_sega_ibd
Version 1.0
Tomcio created on 2022-04-22. Last modified 2022-07-10

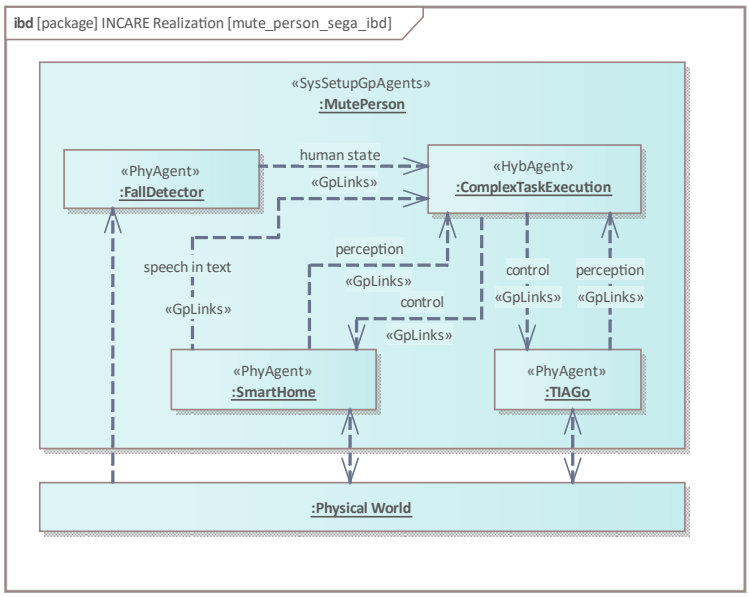

Figure 7: mute_person_sega_ibd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

ASSOCIATIONS	
Source: Public (Package) INCARE Requirements	Target: Public (Package) INCARE Realization

physical_sega_ibd diagram

SysML Internal Block diagram in package 'INCARE Realization'

physical_sega_ibd
Version 1.0
Tomcio created on 2022-04-22. Last modified 2023-03-04

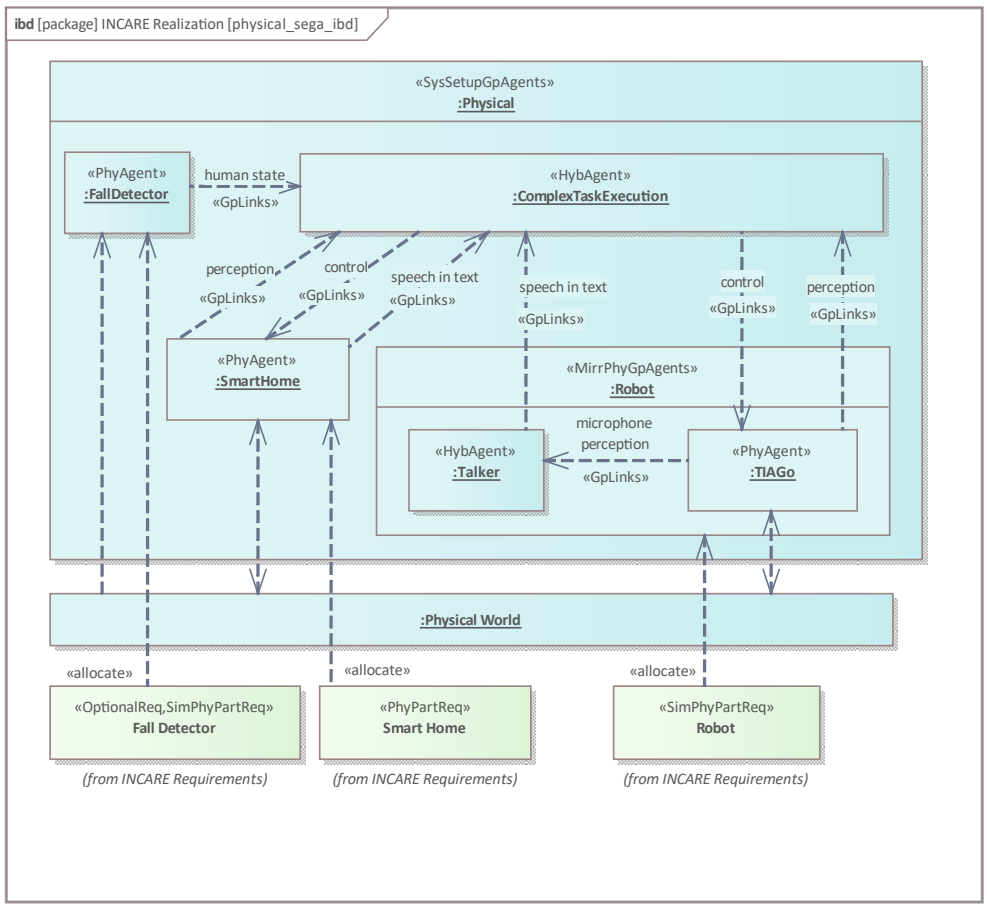

Figure 8: physical_sega_ibd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

Fall Detector

Requirement «OptionalReq» in package 'INCARE Requirements'

Fall Detector
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «OptionalReq» Fall Detector to «PhyAgent» Object

[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: Fall Detector : Requirement, Public
To: Object : Object, Public

Dependency example of Source -> Destination
From: Fall Detector : Requirement, Public
To: additional devices : Requirement, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Fall Detector «OptionalReq» Target: Public (Object) Object «PhyAgent»

Robot

Requirement «SimPhyPartReq» in package 'INCARE Requirements'

Robot
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-04

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «SimPhyPartReq» Robot to «MirrPhyGpAgents» Object
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «MirrSimGpAgents» Object to «SimPhyPartReq» Robot
[Direction is 'Destination -> Source'.]

CONNECTORS

Nesting Source -> Destination
From: Robot : Requirement, Public
To: INCARE System : Requirement, Public

Allocate «allocate» Source -> Destination
From: Robot : Requirement, Public
To: Object : Object, Public

Nesting Source -> Destination
From: Robot Skills : Requirement, Public
To: Robot : Requirement, Public

Dependency communication Bi-Directional
From: additional devices : Requirement, Public
To: Robot : Requirement, Public

Nesting Source -> Destination
From: Robot components : Requirement, Public
To: Robot : Requirement, Public

Allocate «allocate» Destination -> Source
From: Object : Object, Public
To: Robot : Requirement, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Robot «SimPhyPartReq» Target: Public (Object) Object «MirrPhyGpAgents»

Allocate (direction: Destination -> Source) «allocate»

Source: Public (Object) Object «MirrSimGpAgents» Target: Public (Requirement) Robot «SimPhyPartReq»

Smart Home

Requirement «PhyPartReq» in package 'INCARE Requirements'

Smart Home
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «PhyPartReq» Smart Home to «PhyAgent» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: Smart Home : Requirement, Public
To: Object : Object, Public

Dependency example of Source -> Destination
From: Smart Home : Requirement, Public
To: additional devices : Requirement, Public

Nesting Source -> Destination
From: Home automation components : Requirement, Public
To: Smart Home : Requirement, Public

Nesting Source -> Destination
From: Home automation skills : Requirement, Public
To: Smart Home : Requirement, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Smart Home «PhyPartReq» Target: Public (Object) Object «PhyAgent»

simulated_sega_ibd diagram

SysML Internal Block diagram in package 'INCARE Realization'

simulated_sega_ibd
Version 1.0
Tomcio created on 2022-04-19. Last modified 2023-03-04

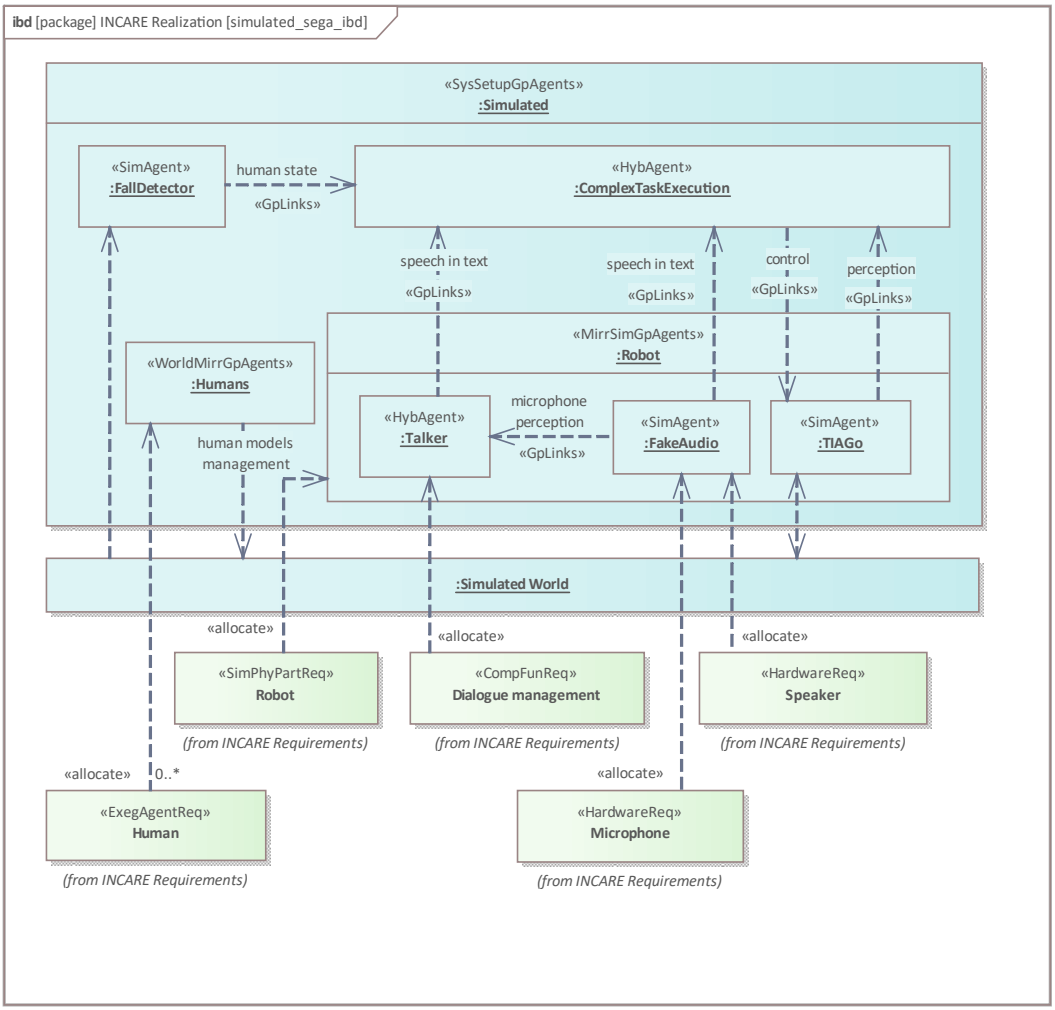

Figure 9: simulated_sega_ibd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization
[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

Dialogue management

Requirement «CompFunReq» in package 'INCARE Requirements'

Dialogue management
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-04

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «HybAgent» Object to «CompFunReq» Dialogue management
[Direction is 'Destination -> Source'.]

CONNECTORS

Nesting Source -> Destination
From: Dialogue management : Requirement, Public
To: Robot Skills : Requirement, Public

Allocate «allocate» Destination -> Source
From: Object : Object, Public
To: Dialogue management : Requirement, Public

ASSOCIATIONS

Allocate (direction: Destination -> Source) «allocate»

Source: Public (Object) Object «HybAgent»

Target: Public (Requirement) Dialogue management «CompFunReq»

ASSOCIATIONS

Human

Requirement «ExegAgentReq» in package 'INCARE Requirements'

Human
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-04. Last modified 2023-03-04

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «ExegAgentReq» Human to «WorldMirrGpAgents» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Nesting Source -> Destination
From: Human : Requirement, Public
To: INCARE System : Requirement, Public

Allocate «allocate» Source -> Destination
From: Human : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Human «ExegAgentReq»
Cardinality: [0..*]

Target: Public (Object) Object «WorldMirrGpAgents»

Microphone

Requirement «HardwareReq» in package 'INCARE Requirements'

Microphone
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. TTS and STT
[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Microphone to «SimPhyFunReq» TTS and STT
[Direction is 'Source -> Destination'.]

Allocate «allocate» from «HardwareReq» Microphone to «SimAgent» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: Microphone : Requirement, Public
To: TTS and STT : Requirement, Public

Nesting Source -> Destination
From: Microphone : Requirement, Public
To: Robot components : Requirement, Public

Allocate «allocate» Source -> Destination
From: Microphone : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Microphone «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Microphone «HardwareReq»

Target: Public (Object) Object «SimAgent»

Robot

Requirement «SimPhyPartReq» in package 'INCARE Requirements'

Robot
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-04

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «SimPhyPartReq» Robot to «MirrPhyGpAgents» Object
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «MirrSimGpAgents» Object to «SimPhyPartReq» Robot
[Direction is 'Destination -> Source'.]

CONNECTORS

Nesting Source -> Destination
From: Robot : Requirement, Public
To: INCARE System : Requirement, Public

Allocate «allocate» Source -> Destination
From: Robot : Requirement, Public
To: Object : Object, Public

Nesting Source -> Destination
From: Robot Skills : Requirement, Public
To: Robot : Requirement, Public

Dependency communication Bi-Directional
From: additional devices : Requirement, Public
To: Robot : Requirement, Public

Nesting Source -> Destination
From: Robot components : Requirement, Public
To: Robot : Requirement, Public

Allocate «allocate» Destination -> Source
From: Object : Object, Public
To: Robot : Requirement, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Robot «SimPhyPartReq»
Target: Public (Object) Object «MirrPhyGpAgents»

Allocate (direction: Destination -> Source) «allocate»

Source: Public (Object) Object «MirrSimGpAgents»
Target: Public (Requirement) Robot «SimPhyPartReq»

Speaker

Requirement «HardwareReq» in package 'INCARE Requirements'

Speaker
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. TTS and STT

[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Speaker to «SimPhyFunReq» TTS and STT

[Direction is 'Source -> Destination'.]

Allocate «allocate» from «HardwareReq» Speaker to «SimAgent» Object

[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: Speaker : Requirement, Public
To: TTS and STT : Requirement, Public

Nesting Source -> Destination
From: Speaker : Requirement, Public
To: Robot components : Requirement, Public

Allocate «allocate» Source -> Destination
From: Speaker : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Speaker «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Speaker «HardwareReq»

Target: Public (Object) Object «SimAgent»

stupid_home_sega_ibd diagram

SysML Internal Block diagram in package 'INCARE Realization'

stupid_home_sega_ibd
Version 1.0
Tomcio created on 2022-04-19. Last modified 2022-07-10

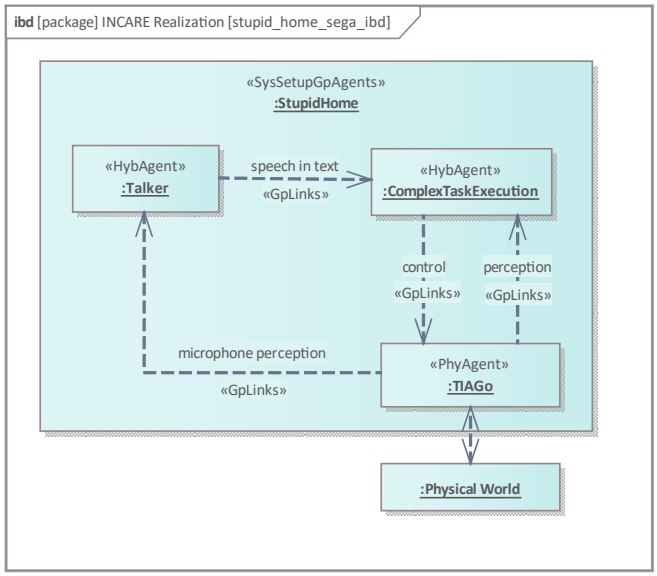

Figure 10: stupid_home_sega_ibd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

tiago_phy_agent_ibd diagram

SysML Internal Block diagram in package 'INCARE Realization'

tiago_phy_agent_ibd
Version 1.0
Tomcio created on 2022-07-23. Last modified 2023-03-04

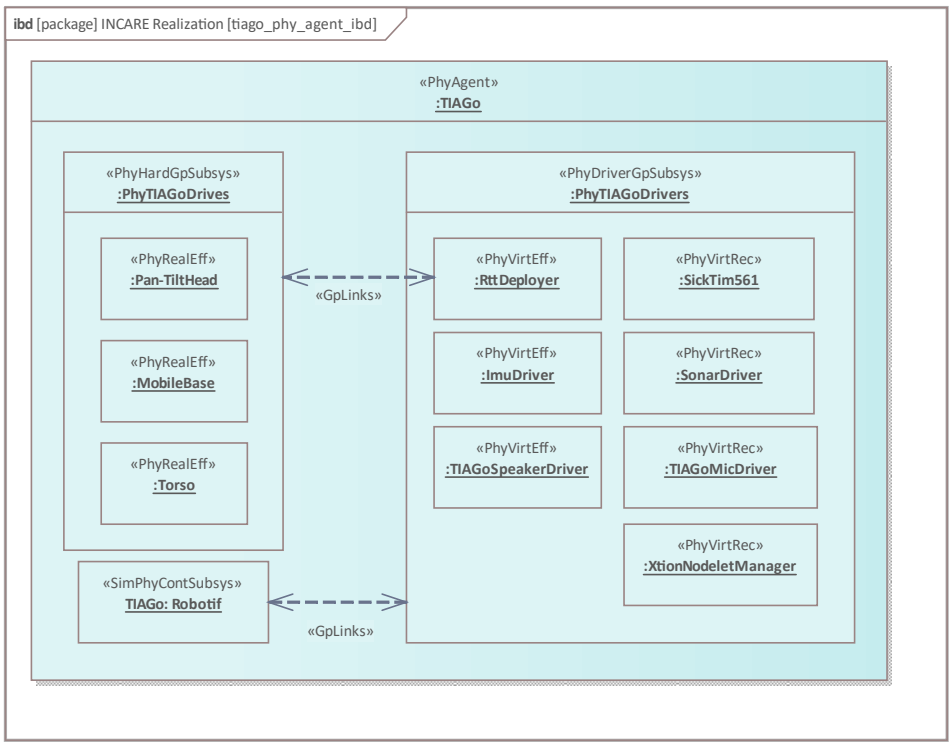

Figure 11: tiago_phy_agent_ibd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

tiago_phy_specific_blocks_bdd diagram

SysML Block Definition diagram in package 'INCARE Realization'

tiago_phy_specific_blocks_bdd
Version 1.0
Tomcio created on 2022-07-23. Last modified 2022-07-24

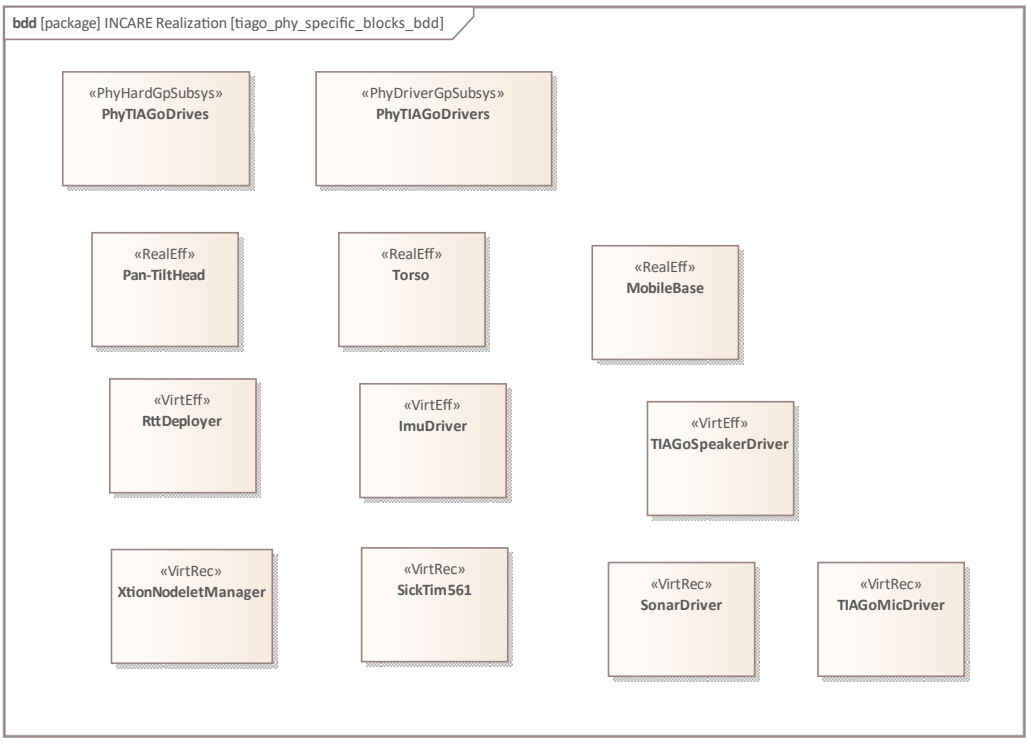

Figure 12: tiago_phy_specific_blocks_bdd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

tiago_sim_agent_ibd diagram

SysML Internal Block diagram in package 'INCARE Realization'

tiago_sim_agent_ibd
Version 1.0
Tomcio created on 2022-07-23. Last modified 2023-03-04

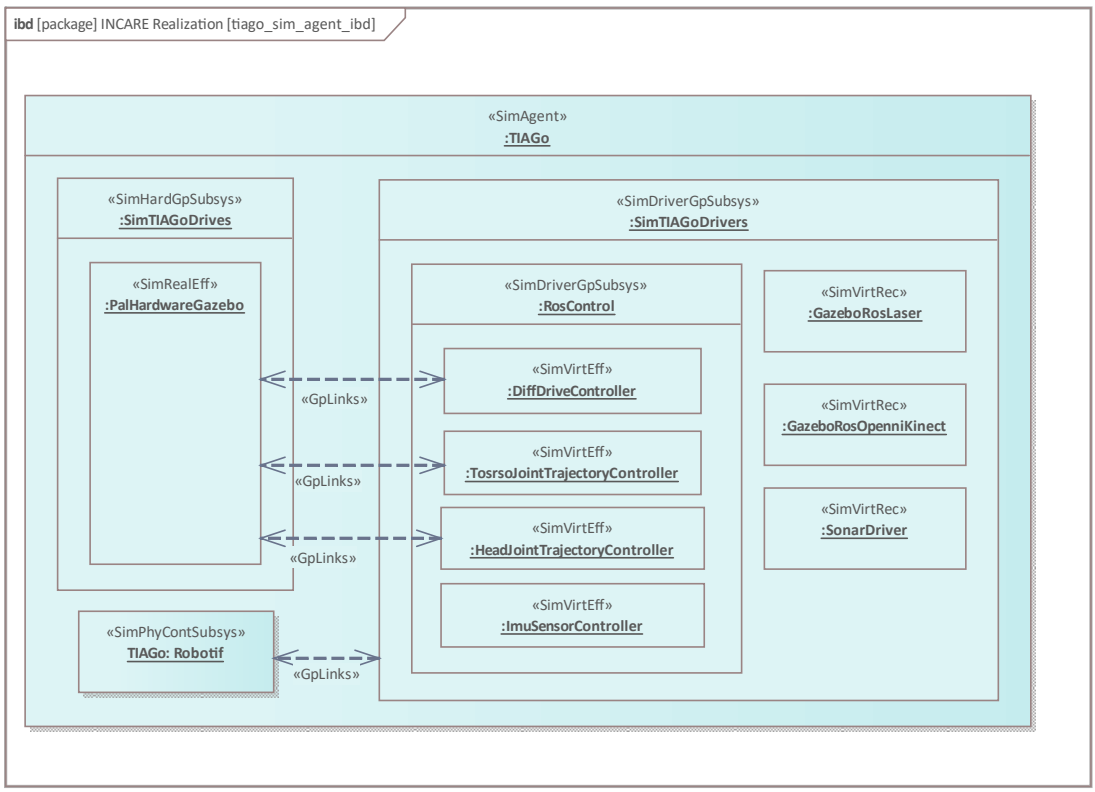

Figure 13: tiago_sim_agent_ibd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

tiago_sim_specific_blocks_bdd diagram

SysML Block Definition diagram in package 'INCARE Realization'

tiago_sim_specific_blocks_bdd
Version 1.0
Tomcio created on 2022-07-23. Last modified 2022-07-24

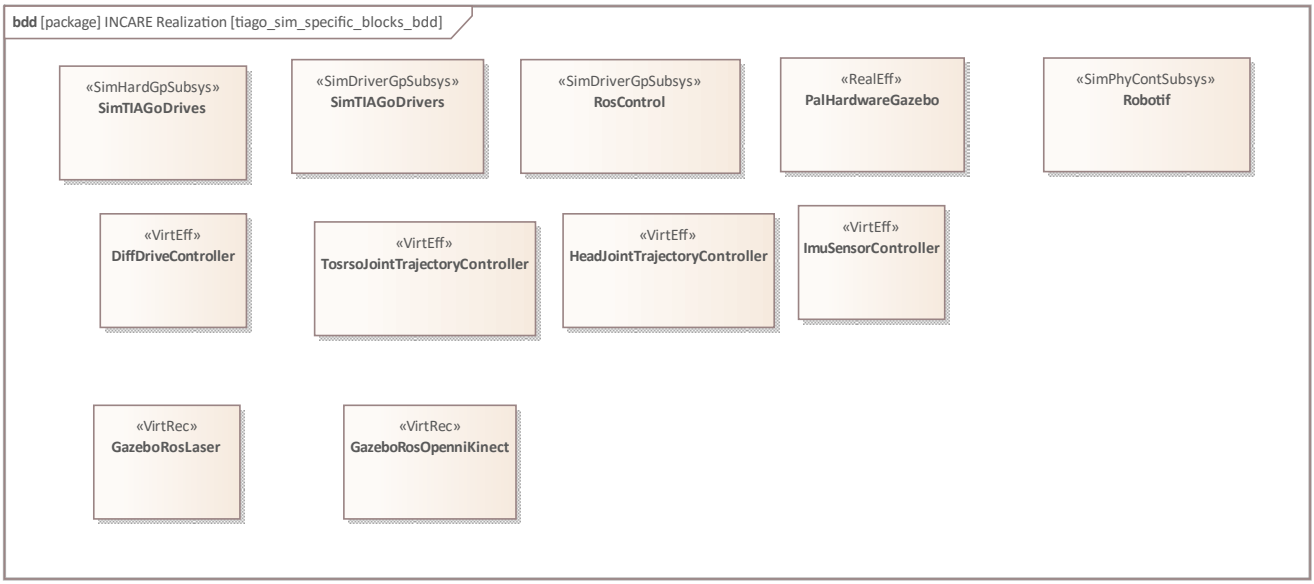

Figure 14: tiago_sim_specific_blocks_bdd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

transport_general_sd diagram

Sequence diagram in package 'INCARE Realization'

transport_general_sd
Version 1.0
yoyek created on 2022-04-22. Last modified 2022-07-12

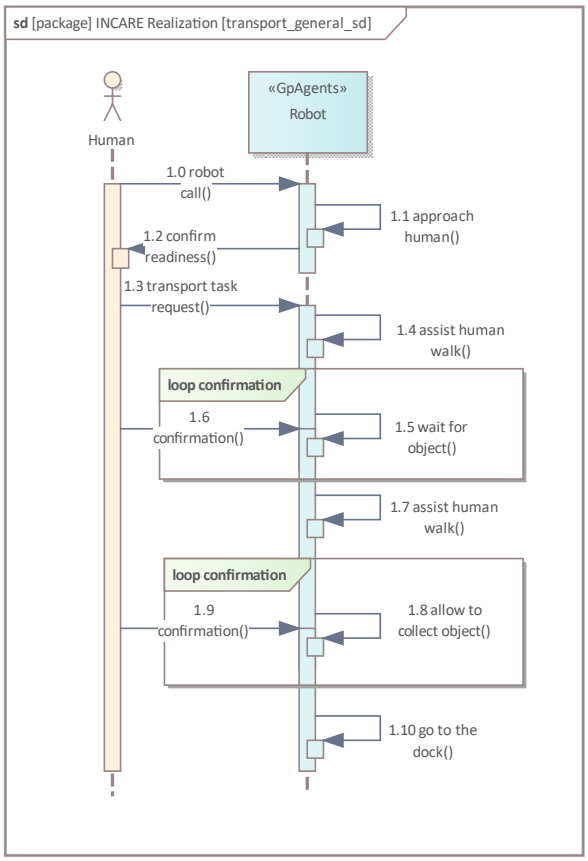

Figure 15: transport_general_sd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

INTERACTION MESSAGES

1.0 'robot call' from 'Human' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.1 'approach human' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.2 'confirm readiness' from 'Robot' sent to 'Human'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.3 'transport task request' from 'Human' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.4 'assist human walk' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.5 'wait for object' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.6 'confirmation' from 'Human' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.7 'assist human walk' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.8 'allow to collect object' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.9 'confirmation' from 'Human' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.10 'go to the dock' from 'Robot' sent to 'Robot'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

transport_physical_sd diagram

Sequence diagram in package 'INCARE Realization'

transport_physical_sd
Version 1.0

yoyek created on 2022-04-22. Last modified 2022-07-12

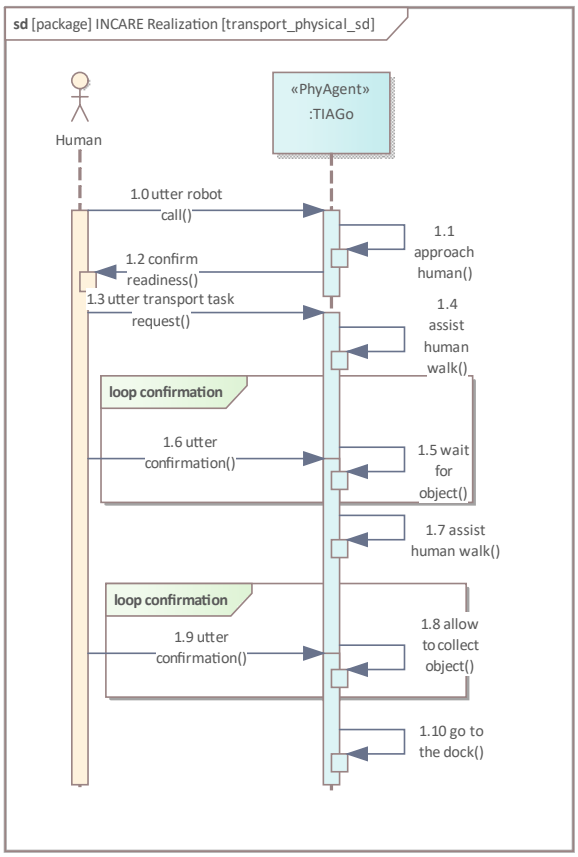

Figure 16: transport_physical_sd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

INTERACTION MESSAGES

1.0 'utter robot call' from 'Human' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.1 'approach human' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.2 'confirm readiness' from ':TIAGo' sent to 'Human'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.3 'utter transport task request' from 'Human' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.4 'assist human walk' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.5 'wait for object' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.6 'utter confirmation' from 'Human' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.7 'assist human walk' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.8 'allow to collect object' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.9 'utter confirmation' from 'Human' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.10 'go to the dock' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

transport_simulated_sd diagram

Sequence diagram in package 'INCARE Realization'

transport_simulated_sd
Version 1.0
yoyek created on 2022-04-22. Last modified 2022-07-10

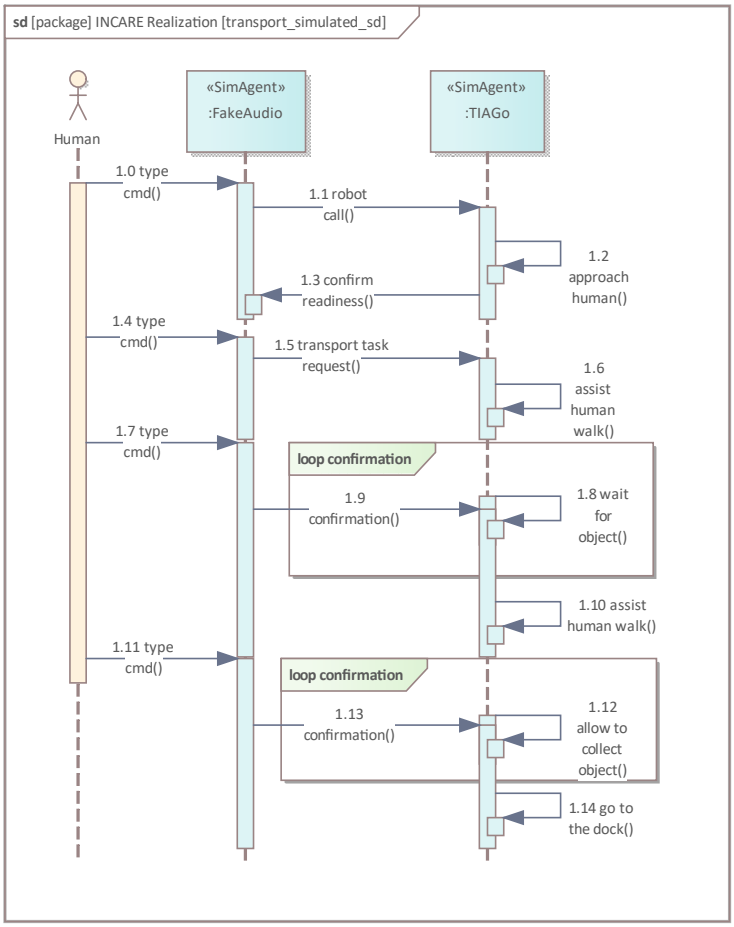

Figure 17: transport_simulated_sd

INCARE Realization

Package in package 'SPSys'

INCARE Realization
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-07

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements

Target: Public (Package) INCARE Realization

INTERACTION MESSAGES

1.0 'type cmd' from 'Human' sent to ':FakeAudio'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.1 'robot call' from ':FakeAudio' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.2 'approach human' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.3 'confirm readiness' from ':TIAGo' sent to ':FakeAudio'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.4 'type cmd' from 'Human' sent to ':FakeAudio'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.5 'transport task request' from ':FakeAudio' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.6 'assist human walk' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.7 'type cmd' from 'Human' sent to ':FakeAudio'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.8 'wait for object' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.9 'confirmation' from ':FakeAudio' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.10 'assist human walk' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.11 'type cmd' from 'Human' sent to ':FakeAudio'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.12 'allow to collect object' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.13 'confirmation' from ':FakeAudio' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

1.14 'go to the dock' from ':TIAGo' sent to ':TIAGo'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

Human

Actor in package 'INCARE Realization'

Human
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2022-04-22

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: type cmd

OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from Human to «SimAgent» Object

Name: answer
Sequence from Human to «SimAgent» Object

Name: type cmd
Sequence from Human to «SimAgent» Object

Name: utter robot call
Sequence from Human to «PhyAgent» Object

Name: utter confirmation
Sequence from Human to «PhyAgent» Object

Name: utter confirmation
Sequence from Human to «PhyAgent» Object

Name: human fell
Sequence from Human to «GpAgents» FallDetector

Name: human fell
Sequence from Human to «PhyAgent» Object

Name: robot call
Sequence from Human to «GpAgents» Robot

Name: human fell
Sequence from Human to «SimAgent» Object

Name: answer
Sequence from Human to «GpAgents» Robot

Name: utter transport task request
Sequence from Human to «PhyAgent» Object

Name: type cmd
Sequence from Human to «SimAgent» Object

Name: confirmation
Sequence from Human to «GpAgents» Robot

Name: confirmation
Sequence from Human to «GpAgents» Robot

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: answer
Sequence from Human to «PhyAgent» Object

Name: type cmd
Sequence from Human to «SimAgent» Object

Name: transport task request
Sequence from Human to «GpAgents» Robot

INCOMING BEHAVIORAL RELATIONSHIPS

Name: communicate with human
Sequence from «PhyAgent» Object to Human

Name: communicate with human
Sequence from «GpAgents» Robot to Human

Name: confirm readiness
Sequence from «PhyAgent» Object to Human

Name: confirm readiness
Sequence from «GpAgents» Robot to Human

Name: communicate with human
Sequence from «SimAgent» Object to Human

Action Commander

Class «Agent» in package 'INCARE Realization'

Action Commander
Version 1.0 Phase 1.0 Proposed
yoyek created on 2023-03-02. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «Agent» Action Commander to «WorldMirrGpAgents» Human and Robot Simulation
[Direction is 'Source -> Destination'.]

Actor

Class «Agent» in package 'INCARE Realization'

Actor
Version 1.0 Phase 1.0 Proposed
yoyek created on 2023-03-02. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «Agent» Actor to «WorldMirrGpAgents» Human and Robot Simulation
[Direction is 'Source -> Destination'.]

ComplexTaskExecution

Class «HybAgent» in package 'INCARE Realization'

ComplexTaskExecution
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-23

DiffDriveController

Class «VirtEff» in package 'INCARE Realization'

DiffDriveController
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

FakeAudio

Class «SimAgent» in package 'INCARE Realization'

FakeAudio
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

FallDetector

Class «PhyAgent» in package 'INCARE Realization'

FallDetector
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

FallDetector

Class «SimAgent» in package 'INCARE Realization'

FallDetector
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

GazeboRosLaser

Class «VirtRec» in package 'INCARE Realization'

GazeboRosLaser
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

GazeboRosOpenniKinect

Class «VirtRec» in package 'INCARE Realization'

GazeboRosOpenniKinect
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Global Planer

Class «Agent» in package 'INCARE Realization'

Global Planer
Version 1.0 Phase 1.0 Proposed
yoyek created on 2023-03-02. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «Agent» Global Planer to «WorldMirrGpAgents» Human and Robot Simulation
[Direction is 'Source -> Destination'.]

HeadJointTrajectoryController

Class «VirtEff» in package 'INCARE Realization'

HeadJointTrajectoryController
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Human and Robot Simulation

Class «WorldMirrGpAgents» in package 'INCARE Realization'

Human and Robot Simulation
Version 1.0 Phase 1.0 Proposed
yoyek created on 2023-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «Agent» Actor to «WorldMirrGpAgents» Human and Robot Simulation
[Direction is 'Source -> Destination'.]

Aggregation from «Agent» Visualisation to «WorldMirrGpAgents» Human and Robot Simulation
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from «Agent» Action Commander to «WorldMirrGpAgents» Human and Robot Simulation [Direction is 'Source -> Destination'.]
Aggregation from «Agent» Global Planer to «WorldMirrGpAgents» Human and Robot Simulation [Direction is 'Source -> Destination'.]

Humans

Class «WorldMirrGpAgents» in package 'INCARE Realization'

Humans
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13

ImuDriver

Class «VirtEff» in package 'INCARE Realization'

ImuDriver
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

ImuSensorController

Class «VirtEff» in package 'INCARE Realization'

ImuSensorController
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

MobileBase

Class «RealEff» in package 'INCARE Realization'

MobileBase
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

MutePerson

Class «SysSetupGpAgents» in package 'INCARE Realization'

MutePerson
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2023-03-02

PalHardwareGazebo

Class «RealEff» in package 'INCARE Realization'

PalHardwareGazebo
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-24

Pan-TiltHead

Class «RealEff» in package 'INCARE Realization'

Pan-TiltHead
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Physical

Class «SysSetupGpAgents» in package 'INCARE Realization'

Physical
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2023-03-02

PhyTIAGoDrivers

Class «PhyDriverGpSubsys» in package 'INCARE Realization'

PhyTIAGoDrivers
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

PhyTIAGoDrives

Class «PhyHardGpSubsys» in package 'INCARE Realization'

PhyTIAGoDrives
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Robot

Class «MirrPhyGpAgents» in package 'INCARE Realization'

Robot
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23

Robot

Class «MirrSimGpAgents» in package 'INCARE Realization'

Robot
Version 1.0 Phase 1.0 Proposed

Tomcio created on 2022-07-23. Last modified 2022-07-23

Robotif

Class «SimPhyContSubsys» in package 'INCARE Realization'

Robotif
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2023-03-02

RosControl

Class «SimDriverGpSubsys» in package 'INCARE Realization'

RosControl
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-24

RttDeployer

Class «VirtEff» in package 'INCARE Realization'

RttDeployer
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

SickTim561

Class «VirtRec» in package 'INCARE Realization'

SickTim561
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

SimTIAGoDrivers

Class «SimDriverGpSubsys» in package 'INCARE Realization'

SimTIAGoDrivers
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-24

SimTIAGoDrives

Class «SimHardGpSubsys» in package 'INCARE Realization'

SimTIAGoDrives
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-24

Simulated

Class «SysSetupGpAgents» in package 'INCARE Realization'

Simulated
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2023-03-02

SmartHome

Class «PhyAgent» in package 'INCARE Realization'

SmartHome
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

SonarDriver

Class «VirtRec» in package 'INCARE Realization'

SonarDriver
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

StupidHome

Class «SysSetupGpAgents» in package 'INCARE Realization'

StupidHome
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2023-03-02

Talker

Class «HybAgent» in package 'INCARE Realization'

Talker
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

TIAGo

Class «PhyAgent» in package 'INCARE Realization'

TIAGo
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

TIAGo

Class «SimAgent» in package 'INCARE Realization'

TIAGo
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

TIAGoMicDriver

Class «VirtRec» in package 'INCARE Realization'

TIAGoMicDriver
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

TIAGoSpeakerDriver

Class «VirtEff» in package 'INCARE Realization'

TIAGoSpeakerDriver
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Torso

Class «RealEff» in package 'INCARE Realization'

Torso
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

TosrsoJointTrajectoryController

Class «VirtEff» in package 'INCARE Realization'

TosrsoJointTrajectoryController
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Visualisation

Class «Agent» in package 'INCARE Realization'

Visualisation
Version 1.0 Phase 1.0 Proposed
yoyek created on 2023-03-02. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «Agent» Visualisation to «WorldMirrGpAgents» Human and Robot Simulation
[Direction is 'Source -> Destination'.]

XtionNodeletManager

Class «VirtRec» in package 'INCARE Realization'

XtionNodeletManager
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyAgent» in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-09. Last modified 2022-07-13

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object
[Name is human state. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «OptionalReq» Fall Detector to «PhyAgent» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Information Flow «GpLinks» human state Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Dependency Destination -> Source
From: Object : Object, Public
To: Object : Object, Public

Allocate «allocate» Source -> Destination
From: Fall Detector : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Source -> Destination) «GpLinks» human state

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Fall Detector «OptionalReq» Target: Public (Object) Object «PhyAgent»

Object

Object «SysSetupGpAgents» in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2023-03-02

Object

Object «SysSetupGpAgents» in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2023-03-02

ELEMENTS OWNED BY :Physical
Object : Object «PhyAgent»
Object : Object «MirrPhyGpAgents»

Object

Object «PhyAgent» owned by ':Physical', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-09. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS
Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object [Name is speech in text. Direction is 'Source -> Destination'.]
Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object [Name is perception. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Information Flow «GpLinks» from «HybAgent» Object to «PhyAgent» Object [Name is control. Direction is 'Source -> Destination'.]
Allocate «allocate» from «PhyPartReq» Smart Home to «PhyAgent» Object [Direction is 'Source -> Destination'.]

CONNECTORS
Information Flow «GpLinks» speech in text Source -> Destination From: Object : Object, Public To: Object : Object, Public

CONNECTORS

Dependency Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» control Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Allocate «allocate» Source -> Destination
From: Smart Home : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Source -> Destination) «GpLinks» speech in text

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» perception

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» control

Source: Public (Object) Object «HybAgent» Target: Public (Object) Object «PhyAgent»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Smart Home «PhyPartReq» Target: Public (Object) Object «PhyAgent»

Object

Object «MirrPhyGpAgents» owned by ':Physical', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23

ELEMENTS OWNED BY :Robot

Object : Object «PhyAgent»

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «SimPhyPartReq» Robot to «MirrPhyGpAgents» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: Robot : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Robot «SimPhyPartReq» Target: Public (Object) Object «MirrPhyGpAgents»

Object

Object «PhyAgent» owned by ':Robot', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-09. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object
[Name is perception. Direction is 'Source -> Destination'.]

Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object
[Name is microphone perception. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «HybAgent» Object to «PhyAgent» Object
[Name is control. Direction is 'Source -> Destination'.]

CONNECTORS

Information Flow «GpLinks» perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Dependency Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

CONNECTORS

Information Flow «GpLinks» microphone perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» control Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Source -> Destination) «GpLinks» perception

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» microphone perception

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» control

Source: Public (Object) Object «HybAgent» Target: Public (Object) Object «PhyAgent»

Object

Object in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-09. Last modified 2022-07-09

CONNECTORS

Dependency Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Dependency Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Dependency Destination -> Source
From: Object : Object, Public
To: Object : Object, Public

Object

Object «SysSetupGpAgents» in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-19. Last modified 2023-03-02

ELEMENTS OWNED BY :Simulated
Object : Object «HybAgent»
Object : Object «MirrSimGpAgents»
Object : Object «SimAgent»
Object : Object «WorldMirrGpAgents»

Object

Object «HybAgent» owned by ':Simulated', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-09. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS
Information Flow «GpLinks» from «HybAgent» Object to «PhyAgent» Object [Name is control. Direction is 'Source -> Destination'.]
Information Flow «GpLinks» from «HybAgent» Object to «PhyAgent» Object [Name is control. Direction is 'Source -> Destination'.]
Information Flow «GpLinks» from «HybAgent» Object to «SimAgent» Object [Name is control. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object [Name is perception. Direction is 'Source -> Destination'.]
Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object [Name is human state. Direction is 'Source -> Destination'.]
Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object [Name is speech in text. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is human state. Direction is 'Source -> Destination'.]

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is perception. Direction is 'Source -> Destination'.]

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is speech in text. Direction is 'Source -> Destination'.]

Information Flow «GpLinks» from «HybAgent» Object to «HybAgent» Object
[Name is speech in text. Direction is 'Source -> Destination'.]

Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object
[Name is perception. Direction is 'Source -> Destination'.]

CONNECTORS

Information Flow «GpLinks» control Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» control Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» control Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» human state Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» speech in text Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» human state Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

CONNECTORS

Information Flow «GpLinks» perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» speech in text Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» speech in text Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Source -> Destination) «GpLinks» control

Source: Public (Object) Object «HybAgent» Target: Public (Object) Object «PhyAgent»

Information Flow (direction: Source -> Destination) «GpLinks» control

Source: Public (Object) Object «HybAgent» Target: Public (Object) Object «PhyAgent»

Information Flow (direction: Source -> Destination) «GpLinks» control

Source: Public (Object) Object «HybAgent» Target: Public (Object) Object «SimAgent»

Information Flow (direction: Source -> Destination) «GpLinks» perception

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» human state

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» speech in text

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» human state

Source: Public (Object) Object «SimAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» perception

ASSOCIATIONS

Source: Public (Object) Object «SimAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» speech in text

Source: Public (Object) Object «SimAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» speech in text

Source: Public (Object) Object «HybAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» perception

Source: Public (Object) Object «PhyAgent» Target: Public (Object) Object «HybAgent»

Object

Object «MirrSimGpAgents» owned by ':Simulated', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23

ELEMENTS OWNED BY :Robot

Object : Object «SimAgent»

Object : Object «SimAgent»

Object : Object «HybAgent»

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «MirrSimGpAgents» Object to «SimPhyPartReq» Robot
[Direction is 'Destination -> Source'.]

CONNECTORS

Allocate «allocate» Destination -> Source
From: Object : Object, Public
To: Robot : Requirement, Public

ASSOCIATIONS

Allocate (direction: Destination -> Source) «allocate»

Source: Public (Object) Object «MirrSimGpAgents» Target: Public (Requirement) Robot

ASSOCIATIONS

«SimPhyPartReq»

Object

Object «SimAgent» owned by ':Robot', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-10. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is microphone perception. Direction is 'Source -> Destination'.]

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is speech in text. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «HardwareReq» Speaker to «SimAgent» Object
[Direction is 'Source -> Destination'.]

Allocate «allocate» from «HardwareReq» Microphone to «SimAgent» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Information Flow «GpLinks» microphone perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» speech in text Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Allocate «allocate» Source -> Destination
From: Speaker : Requirement, Public
To: Object : Object, Public

Allocate «allocate» Source -> Destination
From: Microphone : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Source -> Destination) «GpLinks» microphone perception

ASSOCIATIONS

Source: Public (Object) Object «SimAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» speech in text

Source: Public (Object) Object «SimAgent» Target: Public (Object) Object «HybAgent»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Speaker «HardwareReq» Target: Public (Object) Object «SimAgent»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Microphone «HardwareReq» Target: Public (Object) Object «SimAgent»

Object

Object «SimAgent» owned by ':Robot', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-10. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is perception. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «HybAgent» Object to «SimAgent» Object
[Name is control. Direction is 'Source -> Destination'.]

CONNECTORS

Dependency Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» control Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Source -> Destination) «GpLinks» perception

Source: Public (Object) Object «SimAgent» Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» control

Source: Public (Object) Object «HybAgent» Target: Public (Object) Object «SimAgent»

Object

Object «HybAgent» owned by ':Robot', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-09. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «HybAgent» Object to «CompFunReq» Dialogue management
[Direction is 'Destination -> Source'.]

Information Flow «GpLinks» from «HybAgent» Object to «HybAgent» Object
[Name is speech in text. Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is microphone perception. Direction is 'Source -> Destination'.]

Information Flow «GpLinks» from «PhyAgent» Object to «HybAgent» Object
[Name is microphone perception. Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Destination -> Source
From: Object : Object, Public
To: Dialogue management : Requirement, Public

Information Flow «GpLinks» speech in text Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» microphone perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

CONNECTORS

Information Flow «GpLinks» microphone perception Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Allocate (direction: Destination -> Source) «allocate»

Source: Public (Object) Object «HybAgent»
Target: Public (Requirement) Dialogue management «CompFunReq»

Information Flow (direction: Source -> Destination) «GpLinks» speech in text

Source: Public (Object) Object «HybAgent»
Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» microphone perception

Source: Public (Object) Object «SimAgent»
Target: Public (Object) Object «HybAgent»

Information Flow (direction: Source -> Destination) «GpLinks» microphone perception

Source: Public (Object) Object «PhyAgent»
Target: Public (Object) Object «HybAgent»

Object

Object «SimAgent» owned by ':Simulated', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-10. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimAgent» Object to «HybAgent» Object
[Name is human state. Direction is 'Source -> Destination'.]

CONNECTORS

Dependency Destination -> Source
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» human state Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

ASSOCIATIONS

Information Flow (direction: Source -> Destination) «GpLinks» human state

Source: Public (Object) Object «SimAgent»

Target: Public (Object) Object «HybAgent»

Object

Object «WorldMirrGpAgents» owned by ':Simulated', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «ExegAgentReq» Human to «WorldMirrGpAgents» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Dependency human models management Source -> Destination
From: Object : Object, Public
To: Object : Object, Public

Allocate «allocate» Source -> Destination
From: Human : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Human «ExegAgentReq»
Cardinality: [0..*]

Target: Public (Object) Object «WorldMirrGpAgents»

Object

Object in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-09. Last modified 2022-07-09

CONNECTORS

Dependency Destination -> Source
From: Object : Object, Public
To: Object : Object, Public

CONNECTORS
Dependency Bi-Directional From: Object : Object, Public To: Object : Object, Public
Dependency human models management Source -> Destination From: Object : Object, Public To: Object : Object, Public

Object

Object «SysSetupGpAgents» in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-19. Last modified 2023-03-02

Object

Object «PhyAgent» in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23

ELEMENTS OWNED BY :TIAGo
Object : Object «PhyDriverGpSubsys»
Object : Object «PhyHardGpSubsys»
TIAGo : Object «SimPhyContSubsys»

Object

Object «PhyDriverGpSubsys» owned by ':TIAGo', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

ELEMENTS OWNED BY :PhyTIAGoDrivers
Object : Object «PhyVirtRec»
Object : Object «PhyVirtRec»

ELEMENTS OWNED BY :PhyTIAGoDrivers

Object : Object «PhyVirtEff»

Object : Object «PhyVirtRec»

Object : Object «PhyVirtEff»

Object : Object «PhyVirtEff»

Object : Object «PhyVirtRec»

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimPhyContSubsys» TIAGo to «PhyDriverGpSubsys» Object
[Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Bi-Directional
From: TIAGo : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) TIAGo «SimPhyContSubsys»

Target: Public (Object) Object «PhyDriverGpSubsys»

Object

Object «PhyVirtRec» owned by ':PhyTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyVirtRec» owned by ':PhyTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyVirtEff» owned by ':PhyTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «PhyHardGpSubsys» Object to «PhyVirtEff» Object
[Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «PhyHardGpSubsys» Target: Public (Object) Object «PhyVirtEff»

Object

Object «PhyVirtRec» owned by ':PhyTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyVirtEff» owned by ':PhyTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyVirtEff» owned by ':PhyTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyVirtRec» owned by ':PhyTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyHardGpSubsys» owned by ':TIAGo', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

ELEMENTS OWNED BY :PhyTIAGoDrives

Object : Object «PhyRealEff»

Object : Object «PhyRealEff»

Object : Object «PhyRealEff»

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «PhyHardGpSubsys» Object to «PhyVirtEff» Object
[Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «PhyHardGpSubsys» Target: Public (Object) Object «PhyVirtEff»

Object

Object «PhyRealEff» owned by ':PhyTIAGoDrives', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyRealEff» owned by ':PhyTIAGoDrives', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «PhyRealEff» owned by ':PhyTIAGoDrives', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

TIAGo

Object «SimPhyContSubsys» owned by ':TIAGo', in package 'INCARE Realization'

TIAGo
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2023-03-04

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimPhyContSubsys» TIAGo to «SimDriverGpSubsys» Object
[Direction is 'Bi-Directional'.]

Information Flow «GpLinks» from «SimPhyContSubsys» TIAGo to «PhyDriverGpSubsys» Object
[Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Bi-Directional
From: TIAGo : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» Bi-Directional
From: TIAGo : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) TIAGo «SimPhyContSubsys»

Target: Public (Object) Object «SimDriverGpSubsys»

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) TIAGo «SimPhyContSubsys»

Target: Public (Object) Object «PhyDriverGpSubsys»

Object

Object «SimAgent» in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23

ELEMENTS OWNED BY :TIAGo
Object : Object «SimDriverGpSubsys»
Object : Object «SimHardGpSubsys»

Object

Object «SimDriverGpSubsys» owned by ':TIAGo', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

ELEMENTS OWNED BY :SimTIAGoDrivers
Object : Object «SimVirtRec»
Object : Object «SimDriverGpSubsys»
Object : Object «SimVirtRec»
Object : Object «SimVirtRec»

INCOMING STRUCTURAL RELATIONSHIPS
Information Flow «GpLinks» from «SimPhyContSubsys» TIAGo to «SimDriverGpSubsys» Object [Direction is 'Bi-Directional'.]

CONNECTORS
Information Flow «GpLinks» Bi-Directional From: TIAGo : Object, Public To: Object : Object, Public

ASSOCIATIONS
Information Flow (direction: Bi-Directional) «GpLinks»

ASSOCIATIONS	
Source: Public (Object) TIAGo «SimPhyContSubsys»	Target: Public (Object) Object «SimDriverGpSubsys»

Object

Object «SimVirtRec» owned by ':SimTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «SimDriverGpSubsys» owned by ':SimTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

ELEMENTS OWNED BY :RosControl
Object : Object «SimVirtEff»
Object : Object «SimVirtEff»
Object : Object «SimVirtEff»
Object : Object «SimVirtEff»

Object

Object «SimVirtEff» owned by ':RosControl', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

INCOMING STRUCTURAL RELATIONSHIPS
Information Flow «GpLinks» from «SimRealEff» Object to «SimVirtEff» Object [Direction is 'Bi-Directional'.]

CONNECTORS
Information Flow «GpLinks» Bi-Directional From: Object : Object, Public To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «SimRealEff» Target: Public (Object) Object «SimVirtEff»

Object

Object «SimVirtEff» owned by ':RosControl', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimRealEff» Object to «SimVirtEff» Object
[Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «SimRealEff» Target: Public (Object) Object «SimVirtEff»

Object

Object «SimVirtEff» owned by ':RosControl', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «SimVirtEff» owned by ':RosControl', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimRealEff» Object to «SimVirtEff» Object
[Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «SimRealEff» Target: Public (Object) Object «SimVirtEff»

Object

Object «SimVirtRec» owned by ':SimTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «SimVirtRec» owned by ':SimTIAGoDrivers', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

Object

Object «SimHardGpSubsys» owned by ':TIAGo', in package 'INCARE Realization'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

ELEMENTS OWNED BY :SimTIAGoDrives

Object : Object «SimRealEff»

Object

Object «SimRealEff» owned by ':SimTIAGoDrives', in package 'INCARE Realization'

Object

Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-24. Last modified 2022-07-24

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimRealEff» Object to «SimVirtEff» Object
[Direction is 'Bi-Directional'.]

Information Flow «GpLinks» from «SimRealEff» Object to «SimVirtEff» Object
[Direction is 'Bi-Directional'.]

Information Flow «GpLinks» from «SimRealEff» Object to «SimVirtEff» Object
[Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «SimRealEff» Target: Public (Object) Object «SimVirtEff»

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «SimRealEff» Target: Public (Object) Object «SimVirtEff»

Information Flow (direction: Bi-Directional) «GpLinks»

Source: Public (Object) Object «SimRealEff» Target: Public (Object) Object «SimVirtEff»

FallDetector

Object «GpAgents» in package 'INCARE Realization'

FallDetector
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2022-07-09

Robot

Object «GpAgents» in package 'INCARE Realization'

Robot
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2022-07-09

confirmation

InteractionFragment in package 'INCARE Realization'

confirmation
Version 1.0 Phase 1.0 Proposed
yoyek created on 2022-04-22. Last modified 2022-07-12

confirmation

InteractionFragment in package 'INCARE Realization'

confirmation
Version 1.0 Phase 1.0 Proposed
yoyek created on 2022-04-22. Last modified 2022-07-12

confirmation

InteractionFragment in package 'INCARE Realization'

confirmation
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2022-07-10

confirmation

InteractionFragment in package 'INCARE Realization'

confirmation
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2022-07-10

confirmation

InteractionFragment in package 'INCARE Realization'

confirmation
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2022-07-10

confirmation

InteractionFragment in package 'INCARE Realization'

confirmation
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-22. Last modified 2022-07-10

INCARE Requirements

Package in package 'SPSys'

INCARE Requirements
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-04-16

LINKS TO OTHER PACKAGES	
Allocate from 'INCARE Requirements' Package to 'INCARE Realization' Package	Direction: Source -> Destination
Usage from 'INCARE Requirements' Package to 'SPSys' Profile «profile»	Direction: Source -> Destination
Realization from 'INCARE Requirements' Package to 'SPSysDP' Package	Direction: Source -> Destination

home_automation_req diagram

SysML Requirements diagram in package 'INCARE Requirements'

home_automation_req
Version 1.0
Yoga created on 2022-03-03. Last modified 2022-03-03

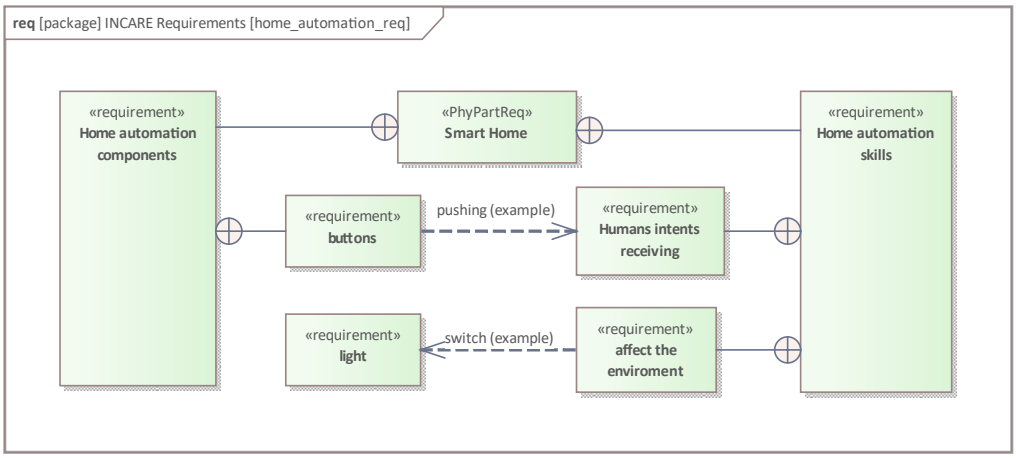

Figure 18: home_automation_req

INCARE Requirements

Package in package 'SPSys'

INCARE Requirements
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-04-16

OUTGOING STRUCTURAL RELATIONSHIPS
Allocate «allocate» from INCARE Requirements to INCARE Realization [Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS

Realization from INCARE Requirements to SPSysDP

[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

Usage Source -> Destination
From: INCARE Requirements : Package, Public
To: SPSys : Profile, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

incare_main_req diagram

SysML Requirements diagram in package 'INCARE Requirements'

incare_main_req
Version 1.0
Yoga created on 2022-03-02. Last modified 2023-03-04

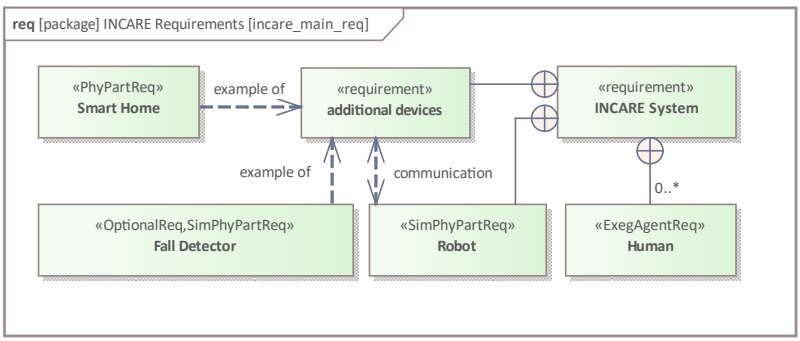

Figure 19: incare_main_req

INCARE Requirements

Package in package 'SPSys'

INCARE Requirements
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-04-16

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization
[Direction is 'Source -> Destination'.]

Realization from INCARE Requirements to SPSysDP
[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

Usage Source -> Destination
From: INCARE Requirements : Package, Public
To: SPSys : Profile, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements
Target: Public (Package) INCARE Realization

robot_req diagram

SysML Requirements diagram in package 'INCARE Requirements'

robot_req
Version 1.0
Yoga created on 2022-03-02. Last modified 2023-03-04

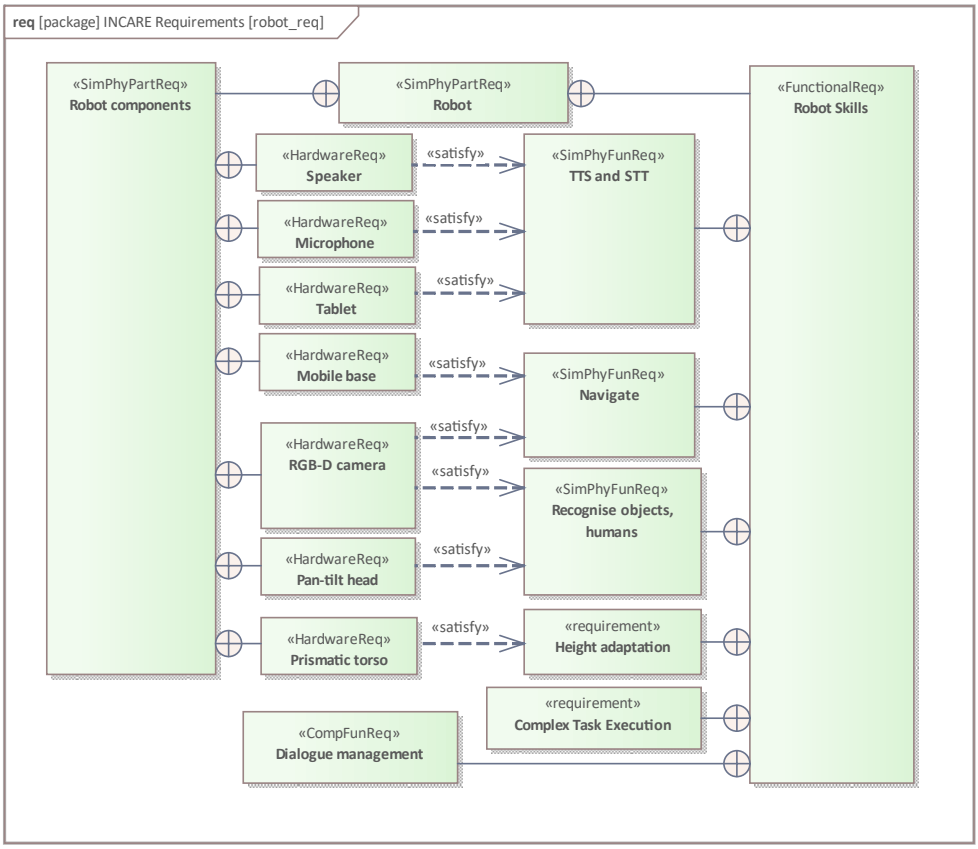

Figure 20: robot_req

INCARE Requirements

Package in package 'SPSys'

INCARE Requirements
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-04-16

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from INCARE Requirements to INCARE Realization

[Direction is 'Source -> Destination'.]

Realization from INCARE Requirements to SPSysDP

[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: INCARE Requirements : Package, Public
To: INCARE Realization : Package, Public

Usage Source -> Destination
From: INCARE Requirements : Package, Public
To: SPSys : Profile, Public

ASSOCIATIONS

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Package) INCARE Requirements Target: Public (Package) INCARE Realization

additional devices

Requirement «requirement» in package 'INCARE Requirements'

additional devices
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-03-03

CONNECTORS

Dependency communication Bi-Directional
From: additional devices : Requirement, Public
To: Robot : Requirement, Public

Nesting Source -> Destination
From: additional devices : Requirement, Public
To: INCARE System : Requirement, Public

Dependency example of Source -> Destination
From: Smart Home : Requirement, Public
To: additional devices : Requirement, Public

Dependency example of Source -> Destination
From: Fall Detector : Requirement, Public
To: additional devices : Requirement, Public

affect the enviroment

Requirement «requirement» in package 'INCARE Requirements'

affect the enviroment
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-03-03

CONNECTORS

Dependency switch (example) Source -> Destination
From: affect the enviroment : Requirement, Public
To: light : Requirement, Public

CONNECTORS

Nesting Source -> Destination
From: affect the enviroment : Requirement, Public
To: Home automation skills : Requirement, Public

buttons

Requirement «requirement» in package 'INCARE Requirements'

buttons
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-03-03

CONNECTORS

Nesting Source -> Destination
From: buttons : Requirement, Public
To: Home automation components : Requirement, Public

Dependency pushing (example) Source -> Destination
From: buttons : Requirement, Public
To: Humans intents receiving : Requirement, Public

Complex Task Execution

Requirement in package 'INCARE Requirements'

Complex Task Execution
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02

CONNECTORS

Nesting Source -> Destination
From: Complex Task Execution : Requirement, Public
To: Robot Skills : Requirement, Public

Dialogue management

Requirement «CompFunReq» in package 'INCARE Requirements'

Dialogue management
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-04

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «HybAgent» Object to «CompFunReq» Dialogue management
[Direction is 'Destination -> Source'.]

CONNECTORS

Nesting Source -> Destination
From: Dialogue management : Requirement, Public
To: Robot Skills : Requirement, Public

Allocate «allocate» Destination -> Source
From: Object : Object, Public
To: Dialogue management : Requirement, Public

ASSOCIATIONS

Allocate (direction: Destination -> Source) «allocate»

Source: Public (Object) Object «HybAgent»

Target: Public (Requirement) Dialogue management «CompFunReq»

Fall Detector

Requirement «OptionalReq» in package 'INCARE Requirements'

Fall Detector
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «OptionalReq» Fall Detector to «PhyAgent» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: Fall Detector : Requirement, Public
To: Object : Object, Public

Dependency example of Source -> Destination
From: Fall Detector : Requirement, Public
To: additional devices : Requirement, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Fall Detector «OptionalReq»

Target: Public (Object) Object «PhyAgent»

Height adaptation

Requirement in package 'INCARE Requirements'

Height adaptation
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-16. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Prismatic torso to Height adaptation
[Direction is 'Source -> Destination'.]

CONNECTORS

Nesting Source -> Destination
From: Height adaptation : Requirement, Public
To: Robot Skills : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: Prismatic torso : Requirement, Public
To: Height adaptation : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Prismatic torso «HardwareReq» Target: Public (Requirement) Height adaptation

Home automation components

Requirement «requirement» in package 'INCARE Requirements'

Home automation components
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-03-03

CONNECTORS

Nesting Source -> Destination
From: Home automation components : Requirement, Public
To: Smart Home : Requirement, Public

Nesting Source -> Destination
From: buttons : Requirement, Public
To: Home automation components : Requirement, Public

Home automation skills

Requirement «requirement» in package 'INCARE Requirements'

Home automation skills

Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-03-03

CONNECTORS

Nesting Source -> Destination
From: Home automation skills : Requirement, Public
To: Smart Home : Requirement, Public

Nesting Source -> Destination
From: Humans intents receiving : Requirement, Public
To: Home automation skills : Requirement, Public

Nesting Source -> Destination
From: affect the enviroment : Requirement, Public
To: Home automation skills : Requirement, Public

Human

Requirement «ExegAgentReq» in package 'INCARE Requirements'

Human
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-04. Last modified 2023-03-04

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «ExegAgentReq» Human to «WorldMirrGpAgents» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Nesting Source -> Destination
From: Human : Requirement, Public
To: INCARE System : Requirement, Public

Allocate «allocate» Source -> Destination
From: Human : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Human «ExegAgentReq»
Cardinality: [0..*]

Target: Public (Object) Object «WorldMirrGpAgents»

Humans intents receiving

Requirement «requirement» in package 'INCARE Requirements'

Humans intents receiving
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-03-03

CONNECTORS

Nesting Source -> Destination
From: Humans intents receiving : Requirement, Public
To: Home automation skills : Requirement, Public

Dependency pushing (example) Source -> Destination
From: buttons : Requirement, Public
To: Humans intents receiving : Requirement, Public

INCARE System

Requirement «requirement» in package 'INCARE Requirements'

INCARE System
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-04-16

CONNECTORS

Nesting Source -> Destination
From: Human : Requirement, Public
To: INCARE System : Requirement, Public

Nesting Source -> Destination
From: Robot : Requirement, Public
To: INCARE System : Requirement, Public

Nesting Source -> Destination
From: additional devices : Requirement, Public
To: INCARE System : Requirement, Public

light

Requirement «requirement» in package 'INCARE Requirements'

light
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-03-03

CONNECTORS

Dependency switch (example) Source -> Destination
From: affect the enviroment : Requirement, Public
To: light : Requirement, Public

Microphone

Requirement «HardwareReq» in package 'INCARE Requirements'

Microphone
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. TTS and STT

[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Microphone to «SimPhyFunReq» TTS and STT

[Direction is 'Source -> Destination'.]

Allocate «allocate» from «HardwareReq» Microphone to «SimAgent» Object

[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: Microphone : Requirement, Public
To: TTS and STT : Requirement, Public

Nesting Source -> Destination
From: Microphone : Requirement, Public
To: Robot components : Requirement, Public

Allocate «allocate» Source -> Destination
From: Microphone : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Microphone «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Microphone «HardwareReq»

Target: Public (Object) Object «SimAgent»

Mobile base

Requirement «HardwareReq» in package 'INCARE Requirements'

Mobile base
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. Navigate

[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Mobile base to «SimPhyFunReq» Navigate

[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: Mobile base : Requirement, Public
To: Navigate : Requirement, Public

Nesting Source -> Destination
From: Mobile base : Requirement, Public
To: Robot components : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Mobile base «HardwareReq»

Target: Public (Requirement) Navigate «SimPhyFunReq»

Navigate

Requirement «SimPhyFunReq» in package 'INCARE Requirements'

Navigate
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Mobile base to «SimPhyFunReq» Navigate

[Direction is 'Source -> Destination'.]

Satisfy «satisfy» from «HardwareReq» RGB-D camera to «SimPhyFunReq» Navigate

[Direction is 'Source -> Destination'.]

CONNECTORS

Nesting Source -> Destination
From: Navigate : Requirement, Public
To: Robot Skills : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: Mobile base : Requirement, Public
To: Navigate : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: RGB-D camera : Requirement, Public
To: Navigate : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Mobile base «HardwareReq»

Target: Public (Requirement) Navigate «SimPhyFunReq»

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) RGB-D camera «HardwareReq»

Target: Public (Requirement) Navigate «SimPhyFunReq»

Pan-tilt head

Requirement «HardwareReq» in package 'INCARE Requirements'

Pan-tilt head
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. Recognise objects, humans

[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Pan-tilt head to «SimPhyFunReq» Recognise objects, humans

[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: Pan-tilt head : Requirement, Public
To: Recognise objects, humans : Requirement, Public

CONNECTORS

Nesting Source -> Destination
From: Pan-tilt head : Requirement, Public
To: Robot components : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Pan-tilt head «HardwareReq»

Target: Public (Requirement) Recognise objects, humans «SimPhyFunReq»

Prismatic torso

Requirement «HardwareReq» in package 'INCARE Requirements'

Prismatic torso
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. Height adaptation

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Prismatic torso to Height adaptation
[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: Prismatic torso : Requirement, Public
To: Height adaptation : Requirement, Public

Nesting Source -> Destination
From: Prismatic torso : Requirement, Public
To: Robot components : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Prismatic torso «HardwareReq»

Target: Public (Requirement) Height adaptation

Recognise objects, humans

Requirement «SimPhyFunReq» in package 'INCARE Requirements'

Recognise objects, humans
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» RGB-D camera to «SimPhyFunReq» Recognise objects, humans
[Direction is 'Source -> Destination'.]

Satisfy «satisfy» from «HardwareReq» Pan-tilt head to «SimPhyFunReq» Recognise objects, humans
[Direction is 'Source -> Destination'.]

CONNECTORS

Nesting Source -> Destination
From: Recognise objects, humans : Requirement, Public
To: Robot Skills : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: RGB-D camera : Requirement, Public
To: Recognise objects, humans : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: Pan-tilt head : Requirement, Public
To: Recognise objects, humans : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) RGB-D camera «HardwareReq»

Target: Public (Requirement) Recognise objects, humans «SimPhyFunReq»

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Pan-tilt head «HardwareReq»

Target: Public (Requirement) Recognise objects, humans «SimPhyFunReq»

RGB-D camera

Requirement «HardwareReq» in package 'INCARE Requirements'

RGB-D camera
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-03. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

EXTERNAL REQUIREMENTS

Requirement. Navigate

[Stereotype is «SimPhyFunReq».]

Requirement. Recognise objects, humans

[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» RGB-D camera to «SimPhyFunReq» Recognise objects, humans

[Direction is 'Source -> Destination'.]

Satisfy «satisfy» from «HardwareReq» RGB-D camera to «SimPhyFunReq» Navigate

[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: RGB-D camera : Requirement, Public
To: Recognise objects, humans : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: RGB-D camera : Requirement, Public
To: Navigate : Requirement, Public

Nesting Source -> Destination
From: RGB-D camera : Requirement, Public
To: Robot components : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) RGB-D camera «HardwareReq»

Target: Public (Requirement) Recognise objects, humans «SimPhyFunReq»

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) RGB-D camera «HardwareReq»

Target: Public (Requirement) Navigate «SimPhyFunReq»

Robot

Requirement «SimPhyPartReq» in package 'INCARE Requirements'

Robot
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-04

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «SimPhyPartReq» Robot to «MirrPhyGpAgents» Object
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «MirrSimGpAgents» Object to «SimPhyPartReq» Robot
[Direction is 'Destination -> Source'.]

CONNECTORS

Nesting Source -> Destination
From: Robot : Requirement, Public
To: INCARE System : Requirement, Public

Allocate «allocate» Source -> Destination
From: Robot : Requirement, Public
To: Object : Object, Public

Nesting Source -> Destination
From: Robot Skills : Requirement, Public
To: Robot : Requirement, Public

Dependency communication Bi-Directional
From: additional devices : Requirement, Public
To: Robot : Requirement, Public

Nesting Source -> Destination
From: Robot components : Requirement, Public
To: Robot : Requirement, Public

Allocate «allocate» Destination -> Source
From: Object : Object, Public
To: Robot : Requirement, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Robot «SimPhyPartReq»

Target: Public (Object) Object «MirrPhyGpAgents»

Allocate (direction: Destination -> Source) «allocate»

Source: Public (Object) Object «MirrSimGpAgents»

Target: Public (Requirement) Robot «SimPhyPartReq»

Robot components

Requirement «SimPhyPartReq» in package 'INCARE Requirements'

Robot components
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-02

CONNECTORS
Nesting Source -> Destination From: Robot components : Requirement, Public To: Robot : Requirement, Public
Nesting Source -> Destination From: Tablet : Requirement, Public To: Robot components : Requirement, Public
Nesting Source -> Destination From: Microphone : Requirement, Public To: Robot components : Requirement, Public
Nesting Source -> Destination From: Speaker : Requirement, Public To: Robot components : Requirement, Public
Nesting Source -> Destination From: Prismatic torso : Requirement, Public To: Robot components : Requirement, Public
Nesting Source -> Destination From: Mobile base : Requirement, Public To: Robot components : Requirement, Public
Nesting Source -> Destination From: Pan-tilt head : Requirement, Public To: Robot components : Requirement, Public
Nesting Source -> Destination From: RGB-D camera : Requirement, Public To: Robot components : Requirement, Public

Robot Skills

Requirement «FunctionalReq» in package 'INCARE Requirements'

Robot Skills
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-02

CONNECTORS

Nesting Source -> Destination
From: Robot Skills : Requirement, Public
To: Robot : Requirement, Public

Nesting Source -> Destination
From: Dialogue management : Requirement, Public
To: Robot Skills : Requirement, Public

Nesting Source -> Destination
From: Recognise objects, humans : Requirement, Public
To: Robot Skills : Requirement, Public

Nesting Source -> Destination
From: Complex Task Execution : Requirement, Public
To: Robot Skills : Requirement, Public

Nesting Source -> Destination
From: Navigate : Requirement, Public
To: Robot Skills : Requirement, Public

Nesting Source -> Destination
From: Height adaptation : Requirement, Public
To: Robot Skills : Requirement, Public

Nesting Source -> Destination
From: TTS and STT : Requirement, Public
To: Robot Skills : Requirement, Public

Smart Home

Requirement «PhyPartReq» in package 'INCARE Requirements'

Smart Home
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Allocate «allocate» from «PhyPartReq» Smart Home to «PhyAgent» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Allocate «allocate» Source -> Destination
From: Smart Home : Requirement, Public
To: Object : Object, Public

CONNECTORS

Dependency example of Source -> Destination
From: Smart Home : Requirement, Public
To: additional devices : Requirement, Public

Nesting Source -> Destination
From: Home automation components : Requirement, Public
To: Smart Home : Requirement, Public

Nesting Source -> Destination
From: Home automation skills : Requirement, Public
To: Smart Home : Requirement, Public

ASSOCIATIONS

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Smart Home «PhyPartReq» Target: Public (Object) Object «PhyAgent»

Speaker

Requirement «HardwareReq» in package 'INCARE Requirements'

Speaker
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. TTS and STT
[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Speaker to «SimPhyFunReq» TTS and STT
[Direction is 'Source -> Destination'.]

Allocate «allocate» from «HardwareReq» Speaker to «SimAgent» Object
[Direction is 'Source -> Destination'.]

CONNECTORS

Satisfy «satisfy» Source -> Destination
From: Speaker : Requirement, Public
To: TTS and STT : Requirement, Public

CONNECTORS

Nesting Source -> Destination
From: Speaker : Requirement, Public
To: Robot components : Requirement, Public

Allocate «allocate» Source -> Destination
From: Speaker : Requirement, Public
To: Object : Object, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Speaker «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

Allocate (direction: Source -> Destination) «allocate»

Source: Public (Requirement) Speaker «HardwareReq»

Target: Public (Object) Object «SimAgent»

Tablet

Requirement «HardwareReq» in package 'INCARE Requirements'

Tablet
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2022-07-13

EXTERNAL REQUIREMENTS

Requirement. TTS and STT

[Stereotype is «SimPhyFunReq».]

OUTGOING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Tablet to «SimPhyFunReq» TTS and STT

[Direction is 'Source -> Destination'.]

CONNECTORS

Nesting Source -> Destination
From: Tablet : Requirement, Public
To: Robot components : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: Tablet : Requirement, Public
To: TTS and STT : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Tablet «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

TTS and STT

Requirement «SimPhyFunReq» in package 'INCARE Requirements'

TTS and STT
Version 1.0 Phase 1.0 Proposed
Yoga created on 2022-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

Satisfy «satisfy» from «HardwareReq» Microphone to «SimPhyFunReq» TTS and STT
[Direction is 'Source -> Destination'.]

Satisfy «satisfy» from «HardwareReq» Speaker to «SimPhyFunReq» TTS and STT
[Direction is 'Source -> Destination'.]

Satisfy «satisfy» from «HardwareReq» Tablet to «SimPhyFunReq» TTS and STT
[Direction is 'Source -> Destination'.]

CONNECTORS

Nesting Source -> Destination
From: TTS and STT : Requirement, Public
To: Robot Skills : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: Microphone : Requirement, Public
To: TTS and STT : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: Speaker : Requirement, Public
To: TTS and STT : Requirement, Public

Satisfy «satisfy» Source -> Destination
From: Tablet : Requirement, Public
To: TTS and STT : Requirement, Public

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Microphone «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

ASSOCIATIONS

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Speaker «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

Satisfy (direction: Source -> Destination) «satisfy»

Source: Public (Requirement) Tablet «HardwareReq»

Target: Public (Requirement) TTS and STT «SimPhyFunReq»

SPSys

Package «profile» in package 'SPSys'

SPSys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-11. Last modified 2023-03-02

LINKS TO OTHER PACKAGES	
Usage from 'SPSysML Model' Package to 'SPSys' Profile «profile»	Direction: Source -> Destination
Usage from 'INCARE Requirements' Package to 'SPSys' Profile «profile»	Direction: Source -> Destination

agents_cd diagram

Class diagram in package 'SPSys'

agents_cd
Version 1.0
Tomcio created on 2022-07-15. Last modified 2023-03-09

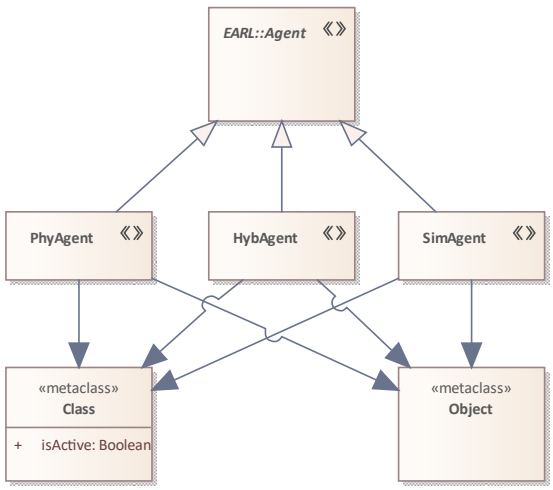

Figure 21: agents_cd

groups_of_agents_cd diagram

Class diagram in package 'SPSys'

groups_of_agents_cd
Version 1.0
Tomcio created on 2022-07-15. Last modified 2023-03-02

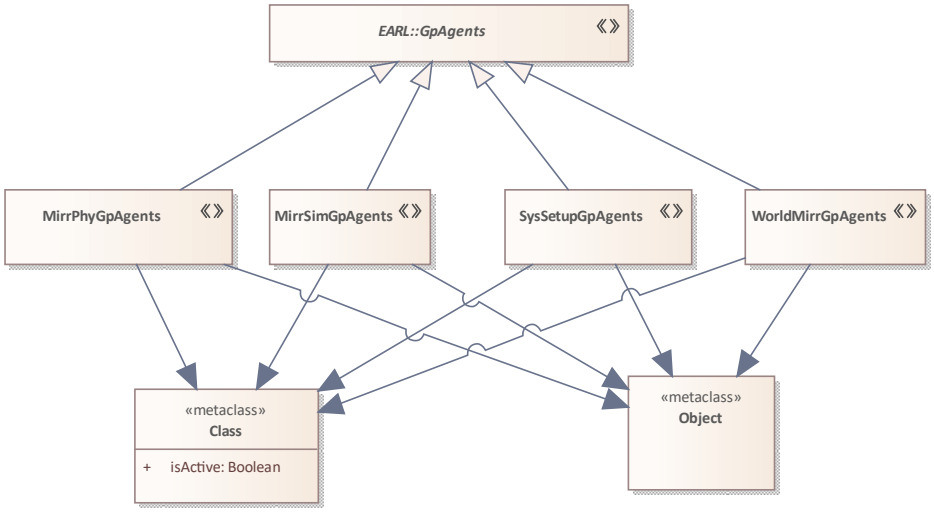

Figure 22: groups_of_agents_cd

groups_of_subsystems_cd diagram

Class diagram in package 'SPSys'

groups_of_subsystems_cd
Version 1.0
Tomcio created on 2022-07-23. Last modified 2023-03-09

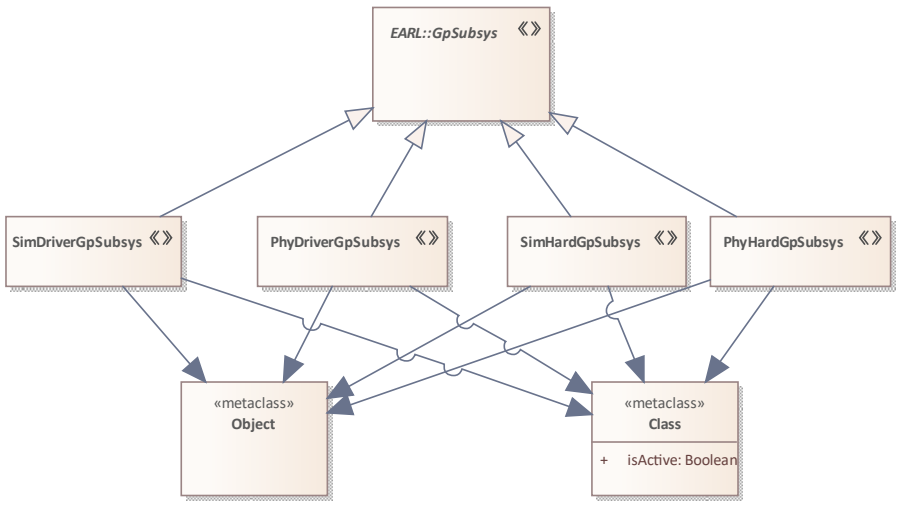

Figure 23: groups_of_subsystems_cd

requirement_stereotypes_generalisation_cd diagram

Class diagram in package 'SPSys'

requirement_stereotypes_generalisation_cd
Version 1.0
Tomcio created on 2022-07-13. Last modified 2023-03-04

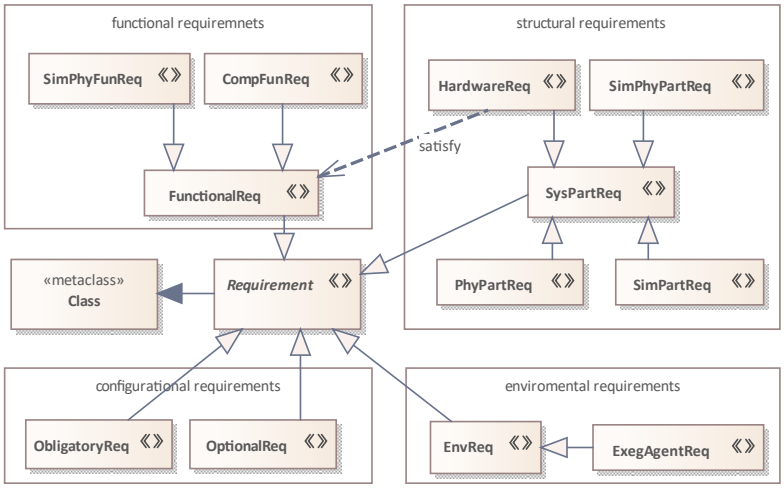

Figure 24: requirement_stereotypes_generalisation_cd

configurational requirements

Boundary in package 'SPSys'

configurational requirements
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2022-07-14
Extends

enviromental requirements

Boundary in package 'SPSys'

enviromental requirements
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-04. Last modified 2023-03-04
Extends

functional requiremnets

Boundary in package 'SPSys'

functional requiremnets
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2022-07-14
Extends

structural requirements

Boundary in package 'SPSys'

structural requirements
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2022-07-14
Extends

subsystems_cd diagram

Class diagram in package 'SPSys'

subsystems_cd
Version 1.0
Tomcio created on 2022-07-15. Last modified 2023-03-09

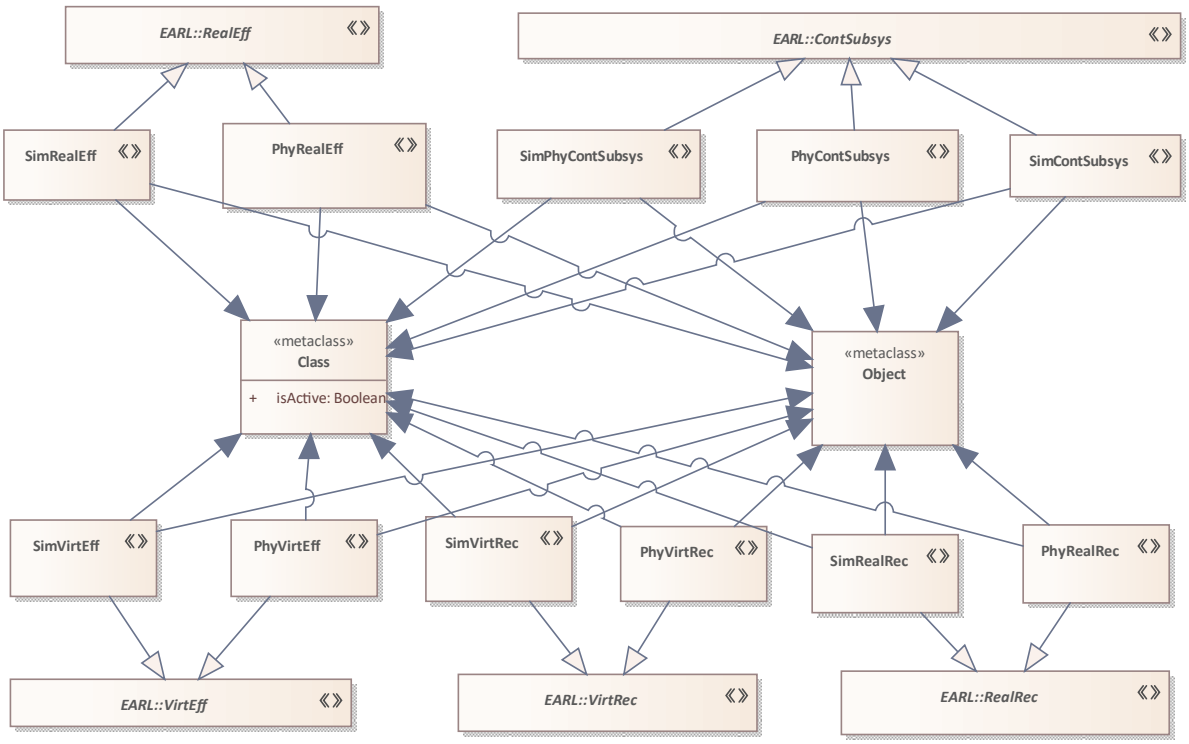

Figure 25: subsystems_cd

Class

Metaclass «Metaclass» in package 'SPSys'

Class
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-11. Last modified 2022-07-11

INCOMING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimRealEff to «Metaclass» Class [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimDriverGpSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyRealEff to «Metaclass» Class [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Extension from «stereotype» SimVirtEff to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» MirrSimGpAgents to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» SimPhyContSubsys to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» MirrPhyGpAgents to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» HybAgent to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» SimVirtRec to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» SimAgent to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» PhyHardGpSubsys to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» PhyVirtEff to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» WorldMirrGpAgents to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» SimHardGpSubsys to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» PhyDriverGpSubsys to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» PhyVirtRec to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» PhyAgent to «Metaclass» Class
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Extension from «stereotype» PhyContSubsys to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» Requirement to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» SimRealRec to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» SysSetupGpAgents to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» SimContSubsys to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Extension from «stereotype» PhyRealRec to «Metaclass» Class
[Direction is 'Source -> Destination'.]

ATTRIBUTES

isActive : Boolean Public
[Is static False. Containment is .]

CompFunReq

Stereotype «stereotype» in package 'SPSys'

CompFunReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02
Extends FunctionalReq

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» CompFunReq to «stereotype» FunctionalReq
[Direction is 'Source -> Destination'.]

EARL::Agent

Stereotype «stereotype» in package 'SPSys'

EARL::Agent
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyAgent to «stereotype» EARL::Agent [Direction is 'Source -> Destination'.]
Generalization from «stereotype» HybAgent to «stereotype» EARL::Agent [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimAgent to «stereotype» EARL::Agent [Direction is 'Source -> Destination'.]

EARL::ContSubsys

Stereotype «stereotype» in package 'SPSys'

EARL::ContSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimPhyContSubsys to «stereotype» EARL::ContSubsys [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimContSubsys to «stereotype» EARL::ContSubsys [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyContSubsys to «stereotype» EARL::ContSubsys [Direction is 'Source -> Destination'.]

EARL::GpAgents

Stereotype «stereotype» in package 'SPSys'

EARL::GpAgents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SysSetupGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]
Generalization from «stereotype» MirrPhyGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» WorldMirrGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]
Generalization from «stereotype» MirrSimGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]

EARL::GpSubsys

Stereotype «stereotype» in package 'SPSys'

EARL::GpSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyHardGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimDriverGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyDriverGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimHardGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]

EARL::RealEff

Stereotype «stereotype» in package 'SPSys'

EARL::RealEff
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimRealEff to «stereotype» EARL::RealEff [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyRealEff to «stereotype» EARL::RealEff [Direction is 'Source -> Destination'.]

EARL::RealRec

Stereotype «stereotype» in package 'SPSys'

EARL::RealRec
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimRealRec to «stereotype» EARL::RealRec [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyRealRec to «stereotype» EARL::RealRec [Direction is 'Source -> Destination'.]

EARL::VirtEff

Stereotype «stereotype» in package 'SPSys'

EARL::VirtEff
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyVirtEff to «stereotype» EARL::VirtEff [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimVirtEff to «stereotype» EARL::VirtEff [Direction is 'Source -> Destination'.]

EARL::VirtRec

Stereotype «stereotype» in package 'SPSys'

EARL::VirtRec
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyVirtRec to «stereotype» EARL::VirtRec [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimVirtRec to «stereotype» EARL::VirtRec [Direction is 'Source -> Destination'.]

EnvReq

Stereotype «stereotype» in package 'SPSys'

EnvReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-04. Last modified 2023-03-04
Extends Requirement

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» EnvReq to «stereotype» Requirement
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» ExegAgentReq to «stereotype» EnvReq
[Direction is 'Source -> Destination'.]

ExegAgentReq

Stereotype «stereotype» in package 'SPSys'

ExegAgentReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-04. Last modified 2023-03-04
Extends EnvReq

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» ExegAgentReq to «stereotype» EnvReq
[Direction is 'Source -> Destination'.]

FunctionalReq

Stereotype «stereotype» in package 'SPSys'

FunctionalReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13
Extends Requirement

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» FunctionalReq to «stereotype» Requirement
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» CompFunReq to «stereotype» FunctionalReq
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» SimPhyFunReq to «stereotype» FunctionalReq
[Direction is 'Source -> Destination'.]

CONNECTORS

Dependency satisfy Source -> Destination
From: HardwareReq : Stereotype, Public
To: FunctionalReq : Stereotype, Public

HardwareReq

Stereotype «stereotype» in package 'SPSys'

HardwareReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13
Extends SysPartReq

OUTGOING STRUCTURAL RELATIONSHIPS

Generalization from «stereotype» HardwareReq to «stereotype» SysPartReq
[Direction is 'Source -> Destination'.]

CONNECTORS

Dependency satisfy Source -> Destination
From: HardwareReq : Stereotype, Public
To: FunctionalReq : Stereotype, Public

HybAgent

Stereotype «stereotype» in package 'SPSys'

HybAgent
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12
Extends EARL::Agent

OUTGOING STRUCTURAL RELATIONSHIPS

Extension from «stereotype» HybAgent to «Metaclass» Class
[Direction is 'Source -> Destination'.]

Generalization from «stereotype» HybAgent to «stereotype» EARL::Agent
[Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» HybAgent to «Metaclass» Object [Direction is 'Source -> Destination'.]

MirrPhyGpAgents

Stereotype «stereotype» in package 'SPSys'

MirrPhyGpAgents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::GpAgents

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» MirrPhyGpAgents to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» MirrPhyGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]
Extension from «stereotype» MirrPhyGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]

MirrSimGpAgents

Stereotype «stereotype» in package 'SPSys'

MirrSimGpAgents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::GpAgents

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» MirrSimGpAgents to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» MirrSimGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]
Extension from «stereotype» MirrSimGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]

Object

Metaclass «Metaclass» in package 'SPSys'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12

INCOMING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SysSetupGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyRealRec to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimVirtEff to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimDriverGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyAgent to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimAgent to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» WorldMirrGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyDriverGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimHardGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimRealRec to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyVirtRec to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» MirrPhyGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimRealEff to «Metaclass» Object [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimVirtRec to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimContSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyHardGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimPhyContSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» HybAgent to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyVirtEff to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyRealEff to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyContSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» MirrSimGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]

ObligatoryReq

Stereotype «stereotype» in package 'SPSys'

ObligatoryReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13
Extends Requirement

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» ObligatoryReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]

OptionalReq

Stereotype «stereotype» in package 'SPSys'

OptionalReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13
Extends Requirement

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» OptionalReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]

PhyAgent

Stereotype «stereotype» in package 'SPSys'

PhyAgent
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-11. Last modified 2022-07-11
Extends EARL::Agent

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» PhyAgent to «Metaclass» Object [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyAgent to «stereotype» EARL::Agent [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyAgent to «Metaclass» Class [Direction is 'Source -> Destination'.]

PhyContSubsys

Stereotype «stereotype» in package 'SPSys'

PhyContSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::ContSubsys

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» PhyContSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyContSubsys to «stereotype» EARL::ContSubsys [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyContSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]

PhyDriverGpSubsys

Stereotype «stereotype» in package 'SPSys'

PhyDriverGpSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23
Extends EARL::GpSubsys

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» PhyDriverGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyDriverGpSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyDriverGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]

PhyHardGpSubsys

Stereotype «stereotype» in package 'SPSys'

PhyHardGpSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23
Extends EARL::GpSubsys

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyHardGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyHardGpSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyHardGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]

PhyPartReq

Stereotype «stereotype» in package 'SPSys'

PhyPartReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02
Extends SysPartReq

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyPartReq to «stereotype» SysPartReq [Direction is 'Source -> Destination'.]

PhyRealEff

Stereotype «stereotype» in package 'SPSys'

PhyRealEff
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::RealEff

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» PhyRealEff to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyRealEff to «stereotype» EARL::RealEff [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyRealEff to «Metaclass» Object [Direction is 'Source -> Destination'.]

PhyRealRec

Stereotype «stereotype» in package 'SPSys'

PhyRealRec
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::RealRec

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» PhyRealRec to «Metaclass» Object [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyRealRec to «stereotype» EARL::RealRec [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyRealRec to «Metaclass» Class [Direction is 'Source -> Destination'.]

PhyVirtEff

Stereotype «stereotype» in package 'SPSys'

PhyVirtEff
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12
Extends EARL::VirtEff

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyVirtEff to «stereotype» EARL::VirtEff [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyVirtEff to «Metaclass» Class [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyVirtEff to «Metaclass» Object [Direction is 'Source -> Destination'.]

PhyVirtRec

Stereotype «stereotype» in package 'SPSys'

PhyVirtRec
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12
Extends EARL::VirtRec

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» PhyVirtRec to «Metaclass» Object [Direction is 'Source -> Destination'.]
Generalization from «stereotype» PhyVirtRec to «stereotype» EARL::VirtRec [Direction is 'Source -> Destination'.]
Extension from «stereotype» PhyVirtRec to «Metaclass» Class [Direction is 'Source -> Destination'.]

Requirement

Stereotype «stereotype» in package 'SPSys'

Requirement
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-04

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» Requirement to «Metaclass» Class [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» FunctionalReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SysPartReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]
Generalization from «stereotype» OptionalReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]
Generalization from «stereotype» EnvReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]
Generalization from «stereotype» ObligatoryReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]

SimAgent

Stereotype «stereotype» in package 'SPSys'

SimAgent
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12
Extends EARL::Agent

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimAgent to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimAgent to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimAgent to «stereotype» EARL::Agent [Direction is 'Source -> Destination'.]

SimContSubsys

Stereotype «stereotype» in package 'SPSys'

SimContSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::ContSubsys

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimContSubsys to «stereotype» EARL::ContSubsys [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimContSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimContSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]

SimDriverGpSubsys

Stereotype «stereotype» in package 'SPSys'

SimDriverGpSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23
Extends EARL::GpSubsys

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimDriverGpSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimDriverGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimDriverGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]

SimHardGpSubsys

Stereotype «stereotype» in package 'SPSys'

SimHardGpSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-23. Last modified 2022-07-23
Extends EARL::GpSubsys

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimHardGpSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimHardGpSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimHardGpSubsys to «stereotype» EARL::GpSubsys [Direction is 'Source -> Destination'.]

SimPartReq

Stereotype «stereotype» in package 'SPSys'

SimPartReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02
Extends SysPartReq

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimPartReq to «stereotype» SysPartReq [Direction is 'Source -> Destination'.]

SimPhyContSubsys

Stereotype «stereotype» in package 'SPSys'

SimPhyContSubsys
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2023-03-02
Extends EARL::ContSubsys

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimPhyContSubsys to «stereotype» EARL::ContSubsys [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimPhyContSubsys to «Metaclass» Class [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimPhyContSubsys to «Metaclass» Object [Direction is 'Source -> Destination'.]

SimPhyFunReq

Stereotype «stereotype» in package 'SPSys'

SimPhyFunReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02
Extends FunctionalReq

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimPhyFunReq to «stereotype» FunctionalReq [Direction is 'Source -> Destination'.]

SimPhyPartReq

Stereotype «stereotype» in package 'SPSys'

SimPhyPartReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02
Extends SysPartReq

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimPhyPartReq to «stereotype» SysPartReq [Direction is 'Source -> Destination'.]

SimRealEff

Stereotype «stereotype» in package 'SPSys'

SimRealEff
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::RealEff

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimRealEff to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimRealEff to «stereotype» EARL::RealEff [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimRealEff to «Metaclass» Object [Direction is 'Source -> Destination'.]

SimRealRec

Stereotype «stereotype» in package 'SPSys'

SimRealRec
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-15. Last modified 2022-07-15
Extends EARL::RealRec

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SimRealRec to «stereotype» EARL::RealRec [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimRealRec to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimRealRec to «Metaclass» Class [Direction is 'Source -> Destination'.]

SimVirtEff

Stereotype «stereotype» in package 'SPSys'

SimVirtEff
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12
Extends EARL::VirtEff

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimVirtEff to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» SimVirtEff to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimVirtEff to «stereotype» EARL::VirtEff [Direction is 'Source -> Destination'.]

SimVirtRec

Stereotype «stereotype» in package 'SPSys'

SimVirtRec
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2022-07-12
Extends EARL::VirtRec

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimVirtRec to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimVirtRec to «stereotype» EARL::VirtRec [Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SimVirtRec to «Metaclass» Object [Direction is 'Source -> Destination'.]

SysPartReq

Stereotype «stereotype» in package 'SPSys'

SysPartReq
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-04
Extends Requirement

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SysPartReq to «stereotype» Requirement [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» PhyPartReq to «stereotype» SysPartReq [Direction is 'Source -> Destination'.]
Generalization from «stereotype» HardwareReq to «stereotype» SysPartReq [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimPhyPartReq to «stereotype» SysPartReq [Direction is 'Source -> Destination'.]
Generalization from «stereotype» SimPartReq to «stereotype» SysPartReq [Direction is 'Source -> Destination'.]

SysSetupGpAgents

Stereotype «stereotype» in package 'SPSys'

SysSetupGpAgents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-12. Last modified 2023-03-02
Extends EARL::GpAgents

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» SysSetupGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «stereotype» SysSetupGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]
Extension from «stereotype» SysSetupGpAgents to «Metaclass» Class [Direction is 'Source -> Destination'.]

WorldMirrGpAgents

Stereotype «stereotype» in package 'SPSys'

WorldMirrGpAgents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13
Extends EARL::GpAgents

OUTGOING STRUCTURAL RELATIONSHIPS
Extension from «stereotype» WorldMirrGpAgents to «Metaclass» Object [Direction is 'Source -> Destination'.]
Extension from «stereotype» WorldMirrGpAgents to «Metaclass» Class [Direction is 'Source -> Destination'.]
Generalization from «stereotype» WorldMirrGpAgents to «stereotype» EARL::GpAgents [Direction is 'Source -> Destination'.]

SPSysDP

Package in package 'SPSys'

SPSysDP
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-02. Last modified 2023-03-02

LINKS TO OTHER PACKAGES		
Usage from 'SPSysDP' Package to 'SPSysML Model' Package	Direction:	Source -> Destination
Realization from 'INCARE Realization' Package to 'SPSysDP' Package	Direction:	Source -> Destination
Realization from 'INCARE Requirements' Package to 'SPSysDP' Package	Direction:	Source -> Destination

design_act diagram

Activity diagram in package 'SPSysDP'

design_act
Version 1.0
Tomcio created on 2023-03-02. Last modified 2023-03-09

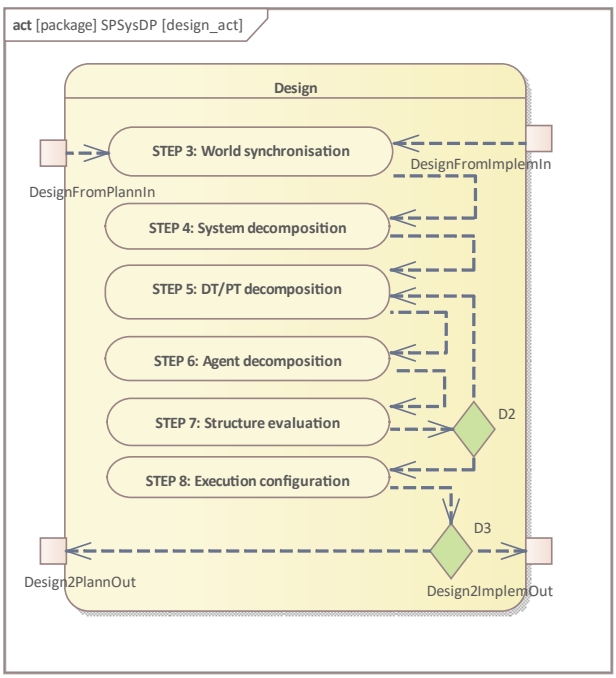

Figure 26: design_act

SPSysDP

Package in package 'SPSys'

SPSysDP
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

Realization from INCARE Requirements to SPSysDP

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

development_procedure_general_act diagram

Activity diagram in package 'SPSysDP'

development_procedure_general_act
Version 1.0
Tomcio created on 2023-03-02. Last modified 2023-03-09

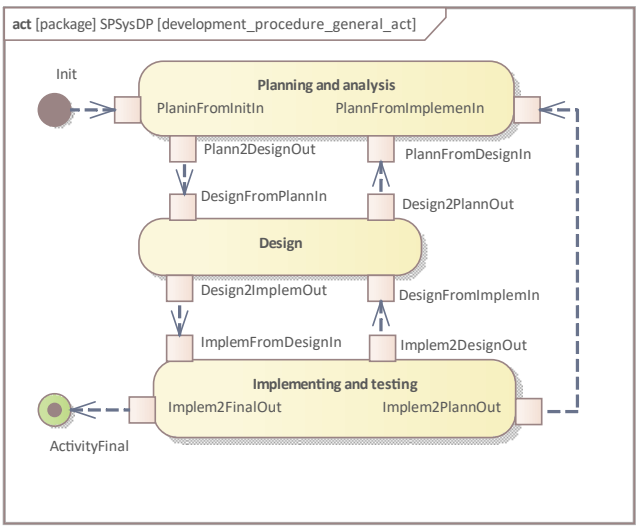

Figure 27: development_procedure_general_act

SPSysDP

Package in package 'SPSys'

SPSysDP
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

Realization from INCARE Realization to SPSysDP

[Direction is 'Source -> Destination'.]

Realization from INCARE Requirements to SPSysDP

[Direction is 'Source -> Destination'.]

CONNECTORS

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

ActivityFinal

ActivityFinal in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: Implem2FinalOut : InputPin, Public
To: ActivityFinal : ActivityFinal, Public

Init

ActivityInitial in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: Init : ActivityInitial, Public
To: PlaninFromInitIn : InputPin, Public

implementing_act diagram

Activity diagram in package 'SPSysDP'

implementing_act
Version 1.0
Tomcio created on 2023-03-02. Last modified 2023-03-09

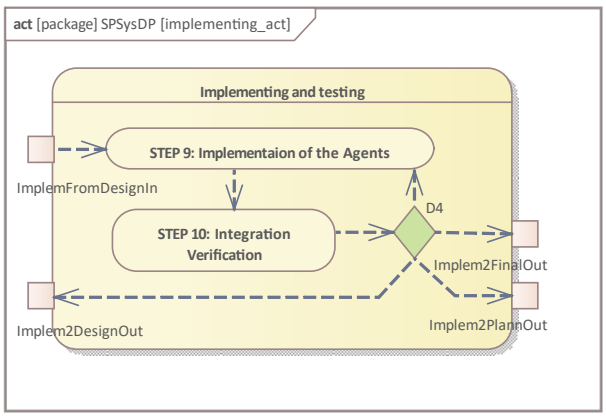

Figure 28: implementing_act

SPSysDP

Package in package 'SPSys'

SPSysDP
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS
Realization from INCARE Realization to SPSysDP [Direction is 'Source -> Destination'.]
Realization from INCARE Requirements to SPSysDP [Direction is 'Source -> Destination'.]

CONNECTORS
Usage Source -> Destination From: SPSysDP : Package, Public To: SPSysML Model : Package, Public

planning_act diagram

Activity diagram in package 'SPSysDP'

planning_act
Version 1.0
Tomcio created on 2023-03-02. Last modified 2023-03-09

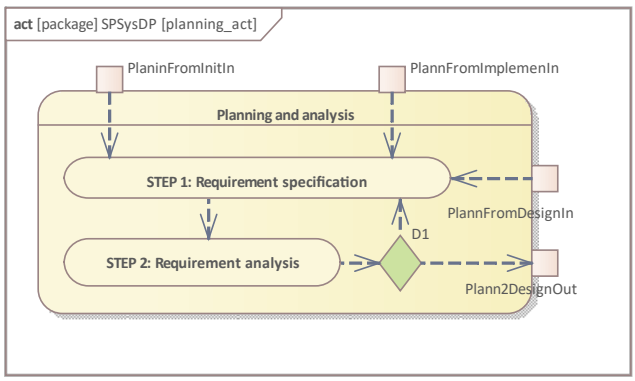

Figure 29: planning_act

SPSysDP

Package in package 'SPSys'

SPSysDP
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2023-03-02. Last modified 2023-03-02

INCOMING STRUCTURAL RELATIONSHIPS
Realization from INCARE Realization to SPSysDP [Direction is 'Source -> Destination'.]
Realization from INCARE Requirements to SPSysDP [Direction is 'Source -> Destination'.]

CONNECTORS
Usage Source -> Destination From: SPSysDP : Package, Public To: SPSysML Model : Package, Public

Design

Activity in package 'SPSysDP'

Design
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-25. Last modified 2023-03-02

ELEMENTS OWNED BY Design
STEP 3: World synchronisation : Activity
STEP 4: System decomposition : Activity

ELEMENTS OWNED BY Design
STEP 5: DT/PT decomposition : Activity
STEP 6: Agent decomposition : Activity
STEP 7: Structure evaluation : Activity
STEP 8: Execution configuration : Activity
D2 : DecisionNode
D3 : DecisionNode

STRUCTURAL PART OF Design
Design2ImplemOut : InputPin
Design2PlannOut : InputPin
DesignFromImplemIn : InputPin
DesignFromPlannIn : InputPin

Design2ImplemOut

InputPin owned by 'Design', in package 'SPSysDP'

CONNECTORS
Dependency Source -> Destination From: Design2ImplemOut : InputPin, Public To: ImplemFromDesignIn : InputPin, Public
Dependency Source -> Destination From: D3 : DecisionNode, Public To: Design2ImplemOut : InputPin, Public

Design2PlannOut

InputPin owned by 'Design', in package 'SPSysDP'

CONNECTORS

CONNECTORS

Dependency Source -> Destination
From: Design2PlannOut : InputPin, Public
To: PlannFromDesignIn : InputPin, Public

Dependency Source -> Destination
From: D3 : DecisionNode, Public
To: Design2PlannOut : InputPin, Public

DesignFromImplemIn

InputPin owned by 'Design', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: DesignFromImplemIn : InputPin, Public
To: STEP 3: World synchronisation : Activity, Public

Dependency Source -> Destination
From: Implem2DesignOut : InputPin, Public
To: DesignFromImplemIn : InputPin, Public

DesignFromPlannIn

InputPin owned by 'Design', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: DesignFromPlannIn : InputPin, Public
To: STEP 3: World synchronisation : Activity, Public

Dependency Source -> Destination
From: Plann2DesignOut : InputPin, Public
To: DesignFromPlannIn : InputPin, Public

STEP 3: World synchronisation

Activity owned by 'Design', in package 'SPSysDP'

STEP 3: World synchronisation
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02

CONNECTORS

CONNECTORS

Dependency Source -> Destination
From: STEP 3: World synchronisation : Activity, Public
To: STEP 4: System decomposition : Activity, Public

Dependency Source -> Destination
From: DesignFromPlannIn : InputPin, Public
To: STEP 3: World synchronisation : Activity, Public

Dependency Source -> Destination
From: DesignFromImplemIn : InputPin, Public
To: STEP 3: World synchronisation : Activity, Public

Dependency [TRUE] Source -> Destination
From: D1 : DecisionNode, Public
To: STEP 3: World synchronisation : Activity, Public

STEP 4: System decomposition

Activity owned by 'Design', in package 'SPSysDP'

STEP 4: System decomposition
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-25

CONNECTORS

Dependency Source -> Destination
From: STEP 4: System decomposition : Activity, Public
To: STEP 5: DT/PT decomposition : Activity, Public

Dependency Source -> Destination
From: STEP 3: World synchronisation : Activity, Public
To: STEP 4: System decomposition : Activity, Public

STEP 5: DT/PT decomposition

Activity owned by 'Design', in package 'SPSysDP'

STEP 5: DT/PT decomposition
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-09

CONNECTORS

Dependency Source -> Destination
From: STEP 5: DT/PT decomposition : Activity, Public
To: STEP 6: Agent decomposition : Activity, Public

CONNECTORS

Dependency Source -> Destination
From: D2 : DecisionNode, Public
To: STEP 5: DT/PT decomposition : Activity, Public

Dependency Source -> Destination
From: STEP 4: System decomposition : Activity, Public
To: STEP 5: DT/PT decomposition : Activity, Public

STEP 6: Agent decomposition

Activity owned by 'Design', in package 'SPSysDP'

STEP 6: Agent decomposition
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-09

CONNECTORS

Dependency Source -> Destination
From: STEP 6: Agent decomposition : Activity, Public
To: STEP 7: Structure evaluation : Activity, Public

Dependency Source -> Destination
From: STEP 5: DT/PT decomposition : Activity, Public
To: STEP 6: Agent decomposition : Activity, Public

STEP 7: Structure evaluation

Activity owned by 'Design', in package 'SPSysDP'

STEP 7: Structure evaluation
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2022-07-25

CONNECTORS

Dependency Source -> Destination
From: STEP 7: Structure evaluation : Activity, Public
To: D2 : DecisionNode, Public

Dependency Source -> Destination
From: STEP 6: Agent decomposition : Activity, Public
To: STEP 7: Structure evaluation : Activity, Public

STEP 8: Execution configuration

Activity owned by 'Design', in package 'SPSysDP'

STEP 8: Execution configuration
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2022-07-25

CONNECTORS

Dependency Source -> Destination
From: STEP 8: Execution configuration : Activity, Public
To: STEP 9: Implementaion of the Agents : Activity, Public

Dependency Source -> Destination
From: STEP 8: Execution configuration : Activity, Public
To: D3 : DecisionNode, Public

Dependency Source -> Destination
From: D2 : DecisionNode, Public
To: STEP 8: Execution configuration : Activity, Public

D2

DecisionNode owned by 'Design', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: D2 : DecisionNode, Public
To: STEP 8: Execution configuration : Activity, Public

Dependency Source -> Destination
From: D2 : DecisionNode, Public
To: STEP 5: DT/PT decomposition : Activity, Public

Dependency Source -> Destination
From: STEP 7: Structure evaluation : Activity, Public
To: D2 : DecisionNode, Public

D3

DecisionNode owned by 'Design', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: D3 : DecisionNode, Public
To: Design2PlannOut : InputPin, Public

CONNECTORS
Dependency Source -> Destination From: D3 : DecisionNode, Public To: Design2ImplemOut : InputPin, Public
Dependency Source -> Destination From: STEP 8: Execution configuration : Activity, Public To: D3 : DecisionNode, Public

Implementing and testing

Activity in package 'SPSysDP'

Implementing and testing
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-25. Last modified 2023-03-02

ELEMENTS OWNED BY Implementing and testing
STEP 10: Integration Verification : Activity
STEP 9: Implementaion of the Agents : Activity
D4 : DecisionNode

STRUCTURAL PART OF Implementing and testing
Implem2DesignOut : InputPin
Implem2FinalOut : InputPin
Implem2PlannOut : InputPin
ImplemFromDesignIn : InputPin

Implem2DesignOut

InputPin owned by 'Implementing and testing', in package 'SPSysDP'

CONNECTORS
Dependency Source -> Destination From: Implem2DesignOut : InputPin, Public To: DesignFromImplemIn : InputPin, Public

CONNECTORS

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: Implem2DesignOut : InputPin, Public

Implem2FinalOut

InputPin owned by 'Implementing and testing', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: Implem2FinalOut : InputPin, Public
To: ActivityFinal : ActivityFinal, Public

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: Implem2FinalOut : InputPin, Public

Implem2PlannOut

InputPin owned by 'Implementing and testing', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: Implem2PlannOut : InputPin, Public
To: PlannFromImplemenIn : InputPin, Public

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: Implem2PlannOut : InputPin, Public

ImplemFromDesignIn

InputPin owned by 'Implementing and testing', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: ImplemFromDesignIn : InputPin, Public
To: STEP 9: Implementaion of the Agents : Activity, Public

Dependency Source -> Destination
From: Design2ImplemOut : InputPin, Public
To: ImplemFromDesignIn : InputPin, Public

STEP 10: Integration Verification

Activity owned by 'Implementing and testing', in package 'SPSysDP'

STEP 10: Integration Verification
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-25

CONNECTORS

Dependency Source -> Destination
From: STEP 10: Integration Verification : Activity, Public
To: D4 : DecisionNode, Public

Dependency Source -> Destination
From: STEP 9: Implementaion of the Agents : Activity, Public
To: STEP 10: Integration Verification : Activity, Public

STEP 9: Implementaion of the Agents

Activity owned by 'Implementing and testing', in package 'SPSysDP'

STEP 9: Implementaion of the Agents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-25

CONNECTORS

Dependency Source -> Destination
From: STEP 9: Implementaion of the Agents : Activity, Public
To: STEP 10: Integration Verification : Activity, Public

Dependency Source -> Destination
From: STEP 8: Execution configuration : Activity, Public
To: STEP 9: Implementaion of the Agents : Activity, Public

Dependency Source -> Destination
From: ImplemFromDesignIn : InputPin, Public
To: STEP 9: Implementaion of the Agents : Activity, Public

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: STEP 9: Implementaion of the Agents : Activity, Public

D4

DecisionNode owned by 'Implementing and testing', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: Implem2PlannOut : InputPin, Public

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: Implem2FinalOut : InputPin, Public

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: Implem2DesignOut : InputPin, Public

Dependency Source -> Destination
From: D4 : DecisionNode, Public
To: STEP 9: Implementaion of the Agents : Activity, Public

Dependency Source -> Destination
From: STEP 10: Integration Verification : Activity, Public
To: D4 : DecisionNode, Public

Planning and analysis

Activity in package 'SPSysDP'

Planning and analysis
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-25. Last modified 2023-03-02

ELEMENTS OWNED BY Planning and analysis

STEP 1: Requirement specification : Activity

STEP 2: Requirement analysis : Activity

D1 : DecisionNode

STRUCTURAL PART OF Planning and analysis

PlaninFromInitIn : InputPin

Plann2DesignOut : InputPin

PlannFromDesignIn : InputPin

STRUCTURAL PART OF Planning and analysis

PlannFromImplemenIn : InputPin

PlaninFromInitIn

InputPin owned by 'Planning and analysis', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: PlaninFromInitIn : InputPin, Public
To: STEP 1: Requirement specification : Activity, Public

Dependency Source -> Destination
From: Init : ActivityInitial, Public
To: PlaninFromInitIn : InputPin, Public

Plann2DesignOut

InputPin owned by 'Planning and analysis', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: Plann2DesignOut : InputPin, Public
To: DesignFromPlannIn : InputPin, Public

Dependency Source -> Destination
From: D1 : DecisionNode, Public
To: Plann2DesignOut : InputPin, Public

PlannFromDesignIn

InputPin owned by 'Planning and analysis', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: PlannFromDesignIn : InputPin, Public
To: STEP 1: Requirement specification : Activity, Public

Dependency Source -> Destination
From: Design2PlannOut : InputPin, Public
To: PlannFromDesignIn : InputPin, Public

PlannFromImplemenIn

InputPin owned by 'Planning and analysis', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: PlannFromImplemenIn : InputPin, Public
To: STEP 1: Requirement specification : Activity, Public

Dependency Source -> Destination
From: Implem2PlannOut : InputPin, Public
To: PlannFromImplemenIn : InputPin, Public

STEP 1: Requirement specification

Activity owned by 'Planning and analysis', in package 'SPSysDP'

STEP 1: Requirement specification
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-25

CONNECTORS

Dependency Source -> Destination
From: STEP 1: Requirement specification : Activity, Public
To: STEP 2: Requirement analysis : Activity, Public

Dependency Source -> Destination
From: PlannFromDesignIn : InputPin, Public
To: STEP 1: Requirement specification : Activity, Public

Dependency Source -> Destination
From: PlaninFromInitIn : InputPin, Public
To: STEP 1: Requirement specification : Activity, Public

Dependency Source -> Destination
From: PlannFromImplemenIn : InputPin, Public
To: STEP 1: Requirement specification : Activity, Public

Dependency Source -> Destination
From: D1 : DecisionNode, Public
To: STEP 1: Requirement specification : Activity, Public

STEP 2: Requirement analysis

Activity owned by 'Planning and analysis', in package 'SPSysDP'

STEP 2: Requirement analysis

Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-25

CONNECTORS

Dependency Source -> Destination
From: STEP 2: Requirement analysis : Activity, Public
To: D1 : DecisionNode, Public

Dependency Source -> Destination
From: STEP 1: Requirement specification : Activity, Public
To: STEP 2: Requirement analysis : Activity, Public

D1

DecisionNode owned by 'Planning and analysis', in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: D1 : DecisionNode, Public
To: STEP 1: Requirement specification : Activity, Public

Dependency Source -> Destination
From: D1 : DecisionNode, Public
To: Plann2DesignOut : InputPin, Public

Dependency [TRUE] Source -> Destination
From: D1 : DecisionNode, Public
To: STEP 3: World synchronisation : Activity, Public

Dependency Source -> Destination
From: STEP 2: Requirement analysis : Activity, Public
To: D1 : DecisionNode, Public

ActivityFinal

ActivityFinal in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: Implem2FinalOut : InputPin, Public
To: ActivityFinal : ActivityFinal, Public

Init

ActivityInitial in package 'SPSysDP'

CONNECTORS

Dependency Source -> Destination
From: Init : ActivityInitial, Public
To: PlaninFromInitIn : InputPin, Public

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

LINKS TO OTHER PACKAGES	
Usage from 'SPSysML Model' Package to 'SPSys' Profile «profile»	Direction: Source -> Destination
Usage from 'SPSysML Model' Package to 'EARL' Package	Direction: Source -> Destination
Usage from 'INCARE Realization' Package to 'SPSysML Model' Package	Direction: Source -> Destination
Usage from 'SPSysDP' Package to 'SPSysML Model' Package	Direction: Source -> Destination

drivers_group_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

drivers_group_bdd
Version 1.0
Tomcio created on 2021-09-16. Last modified 2022-07-15

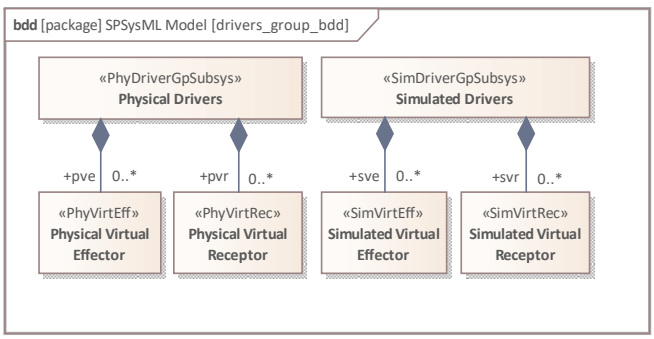

Figure 30: drivers_group_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS
Usage Source -> Destination From: SPSysML Model : Package, Public To: SPSys : Profile, Public

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

dual_embodied_system_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

dual_embodied_system_bdd
Version 1.0
Tomcio created on 2021-09-16. Last modified 2022-07-13

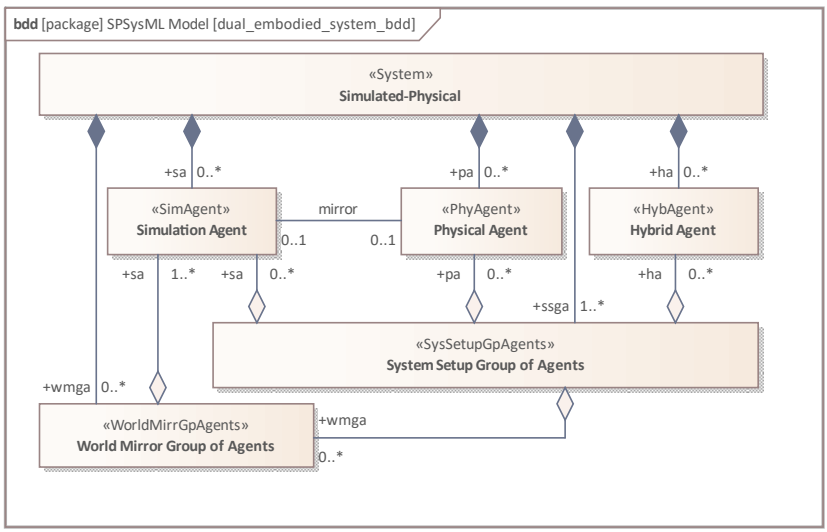

Figure 31: dual_embodied_system_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

dual_embodied_system_gos_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

dual_embodied_system_gos_bdd
Version 1.0
Tomcio created on 2022-04-01. Last modified 2023-03-02

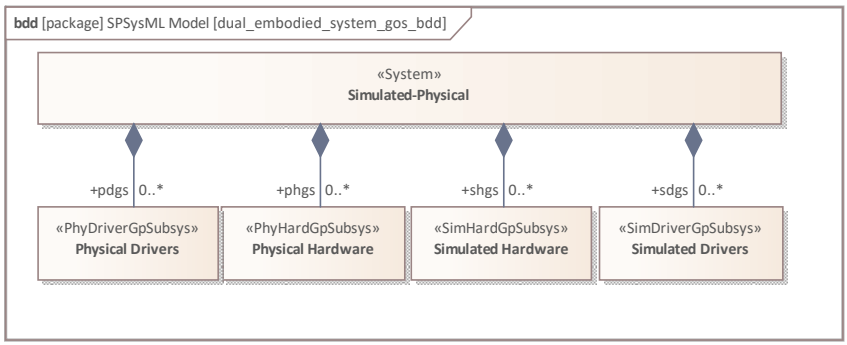

Figure 32: dual_embodied_system_gos_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

hardware_group_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

hardware_group_bdd
Version 1.0
Tomcio created on 2021-09-16. Last modified 2022-10-09

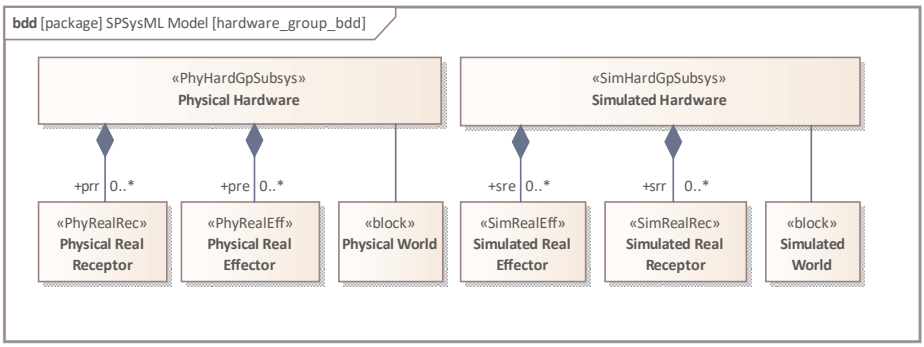

Figure 33: hardware_group_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

hybrid_agent_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

hybrid_agent_bdd
Version 1.0
Tomcio created on 2022-04-08. Last modified 2022-07-15

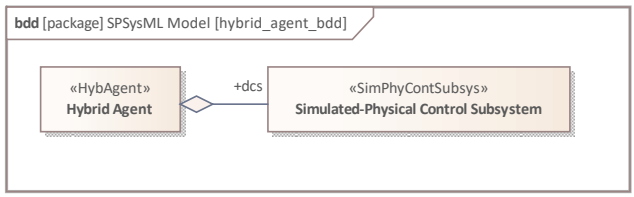

Figure 34: hybrid_agent_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

msga_mpga_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

msga_mpga_bdd
Version 1.0
Tomcio created on 2022-07-14. Last modified 2023-03-04

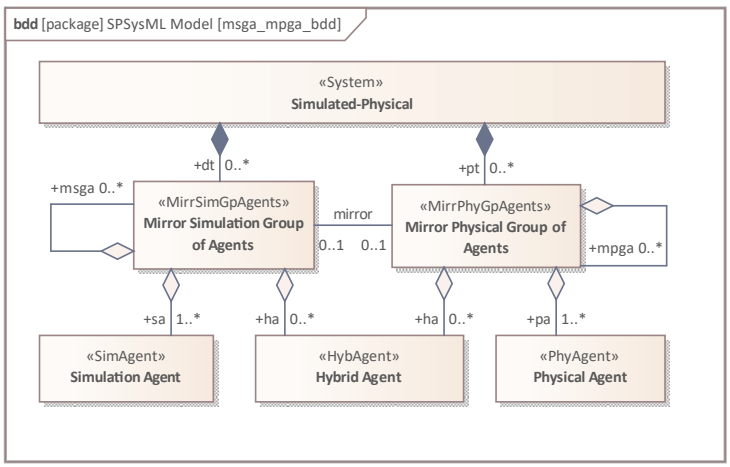

Figure 35: msga_mpga_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

physical_agent_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

physical_agent_bdd
Version 1.0
Tomcio created on 2022-04-08. Last modified 2022-07-15

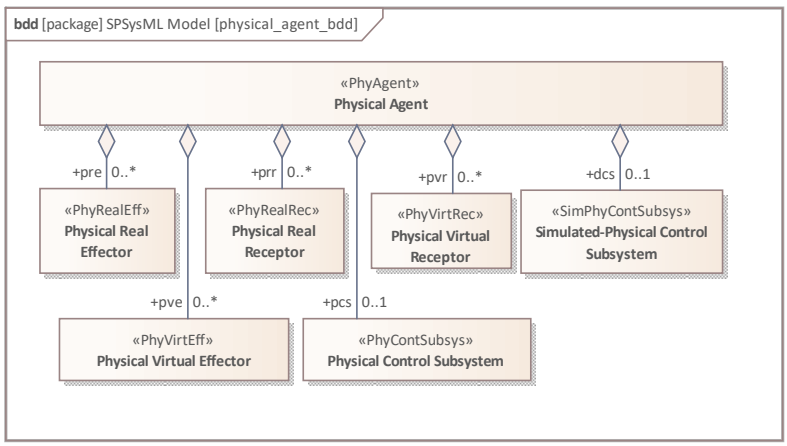

Figure 36: physical_agent_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: EARL : Package, Public

Usage Source -> Destination
From: INCARE Realization : Package, Public
To: SPSysML Model : Package, Public

Usage Source -> Destination
From: SPSysDP : Package, Public
To: SPSysML Model : Package, Public

simulation_agent_bdd diagram

SysML Block Definition diagram in package 'SPSysML Model'

simulation_agent_bdd
Version 1.0
Tomcio created on 2022-04-08. Last modified 2023-03-09

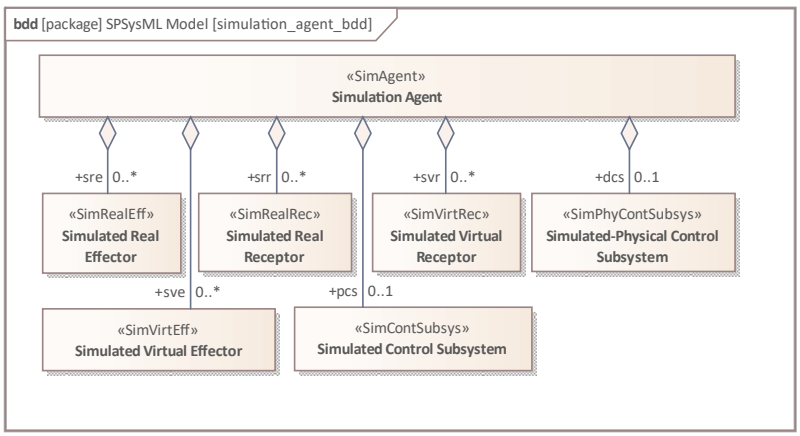

Figure 37: simulation_agent_bdd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS

Usage Source -> Destination
From: SPSysML Model : Package, Public
To: SPSys : Profile, Public

CONNECTORS
Usage Source -> Destination From: SPSysML Model : Package, Public To: EARL : Package, Public
Usage Source -> Destination From: INCARE Realization : Package, Public To: SPSysML Model : Package, Public
Usage Source -> Destination From: SPSysDP : Package, Public To: SPSysML Model : Package, Public

subsystem_interfaces_ibd diagram

SysML Internal Block diagram in package 'SPSysML Model'

subsystem_interfaces_ibd
Version 1.0
Tomcio created on 2022-07-13. Last modified 2023-03-09

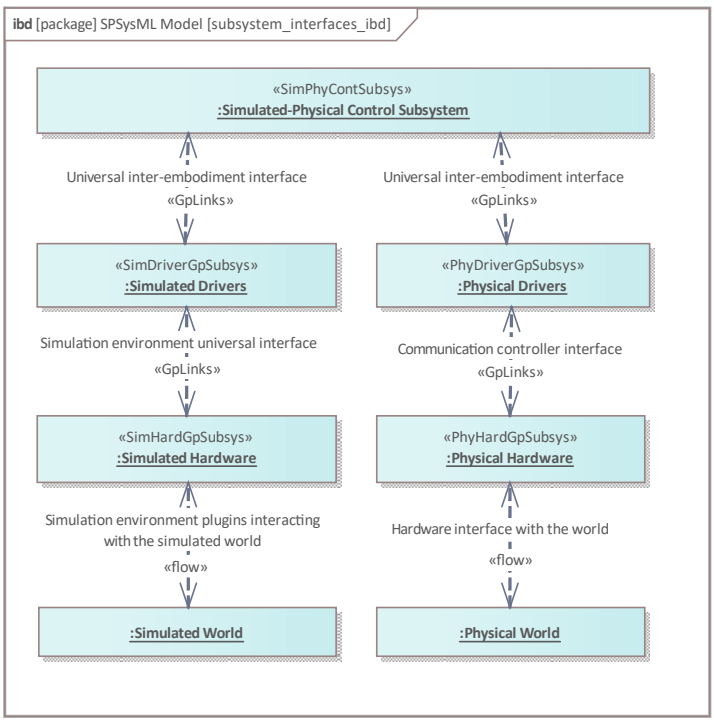

Figure 38: subsystem_interfaces_ibd

SPSysML Model

Package in package 'SPSys'

SPSysML Model
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

CONNECTORS
Usage Source -> Destination From: SPSysML Model : Package, Public To: SPSys : Profile, Public
Usage Source -> Destination From: SPSysML Model : Package, Public To: EARL : Package, Public
Usage Source -> Destination From: INCARE Realization : Package, Public To: SPSysML Model : Package, Public
Usage Source -> Destination From: SPSysDP : Package, Public To: SPSysML Model : Package, Public

Hybrid Agent

Class «HybAgent» in package 'SPSysML Model'

Hybrid Agent
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2023-03-02

STRUCTURAL PART OF Hybrid Agent
dcs : Property
pre : Property
prr : Property
pve : Property
pvr : Property
sre : Property
srr : Property

STRUCTURAL PART OF Hybrid Agent

sve : Property

svr : Property

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «HybAgent» Hybrid Agent to «MirrPhyGpAgents» Mirror Physical Group of Agents
[Direction is 'Source -> Destination'.]

Aggregation from «HybAgent» Hybrid Agent to «System» Simulated-Physical
[Direction is 'Source -> Destination'.]

Aggregation from «HybAgent» Hybrid Agent to «MirrSimGpAgents» Mirror Simulation Group of Agents
[Direction is 'Source -> Destination'.]

Aggregation from «HybAgent» Hybrid Agent to «SysSetupGpAgents» System Setup Group of Agents
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyVirtEff» Physical Virtual Effector to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Aggregation from «SimRealRec» Simulated Real Receptor to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Aggregation from «SimRealEff» Simulated Real Effector to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Aggregation from «SimVirtEff» Simulated Virtual Effector to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Aggregation from «SimVirtRec» Simulated Virtual Receptor to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Aggregation from «PhyVirtRec» Physical Virtual Receptor to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Aggregation from «PhyRealRec» Physical Real Receptor to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Aggregation from «PhyRealEff» Physical Real Effector to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «SimPhyContSubsys» Simulated-Physical Control Subsystem to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

dcs

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

dcs
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

pre

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

pre
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

prr

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

prr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

pve

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

pve
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

pvr

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

pvr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

sre

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

sre

Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

srr

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

srr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

sve

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

sve
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

svr

Property owned by 'Hybrid Agent', in package 'SPSysML Model'

svr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

Mirror Physical Group of Agents

Class «MirrPhyGpAgents» in package 'SPSysML Model'

Mirror Physical Group of Agents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «MirrPhyGpAgents» Mirror Physical Group of Agents to «MirrPhyGpAgents» Mirror Physical Group of Agents [Direction is 'Source -> Destination'.]
Aggregation from «MirrPhyGpAgents» Mirror Physical Group of Agents to «System» Simulated-Physical [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from «HybAgent» Hybrid Agent to «MirrPhyGpAgents» Mirror Physical Group of Agents [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «MirrPhyGpAgents» Mirror Physical Group of Agents to «MirrPhyGpAgents» Mirror Physical Group of Agents
[Direction is 'Source -> Destination'.]

Aggregation from «PhyAgent» Physical Agent to «MirrPhyGpAgents» Mirror Physical Group of Agents
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Unspecified) mirror

Source: Public (Class) Mirror Simulation Group of Agents «MirrSimGpAgents»
Cardinality: [0..1]

Target: Public (Class) Mirror Physical Group of Agents «MirrPhyGpAgents»
Cardinality: [0..1]

Mirror Simulation Group of Agents

Class «MirrSimGpAgents» in package 'SPSysML Model'

Mirror Simulation Group of Agents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «MirrSimGpAgents» Mirror Simulation Group of Agents to «System» Simulated-Physical
[Direction is 'Source -> Destination'.]

Aggregation from «MirrSimGpAgents» Mirror Simulation Group of Agents to «MirrSimGpAgents» Mirror Simulation Group of Agents
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «HybAgent» Hybrid Agent to «MirrSimGpAgents» Mirror Simulation Group of Agents
[Direction is 'Source -> Destination'.]

Aggregation from «SimAgent» Simulation Agent to «MirrSimGpAgents» Mirror Simulation Group of Agents
[Direction is 'Source -> Destination'.]

Aggregation from «MirrSimGpAgents» Mirror Simulation Group of Agents to «MirrSimGpAgents» Mirror Simulation Group of Agents
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Unspecified) mirror

ASSOCIATIONS	
Source: Public (Class) Mirror Simulation Group of Agents «MirrSimGpAgents» Cardinality: [0..1]	Target: Public (Class) Mirror Physical Group of Agents «MirrPhyGpAgents» Cardinality: [0..1]

Physical Agent

Class «PhyAgent» in package 'SPSysML Model'

Physical Agent
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2023-03-02

STRUCTURAL PART OF Physical Agent
dcs : Property
pre : Property
prr : Property
pve : Property
pvr : Property

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «PhyAgent» Physical Agent to «SysSetupGpAgents» System Setup Group of Agents [Direction is 'Source -> Destination'.]
Aggregation from «PhyAgent» Physical Agent to «MirrPhyGpAgents» Mirror Physical Group of Agents [Direction is 'Source -> Destination'.]
Aggregation from «PhyAgent» Physical Agent to «System» Simulated-Physical [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from «PhyRealRec» Physical Real Receptor to «PhyAgent» Physical Agent [Direction is 'Source -> Destination'.]
Aggregation from «SimPhyContSubsys» Simulated-Physical Control Subsystem to «PhyAgent» Physical Agent [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyContSubsys» Physical Control Subsystem to «PhyAgent» Physical Agent
[Direction is 'Source -> Destination'.]

Aggregation from «PhyRealEff» Physical Real Effector to «PhyAgent» Physical Agent
[Direction is 'Source -> Destination'.]

Aggregation from «PhyVirtEff» Physical Virtual Effector to «PhyAgent» Physical Agent
[Direction is 'Source -> Destination'.]

Aggregation from «PhyVirtRec» Physical Virtual Receptor to «PhyAgent» Physical Agent
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Unspecified) mirror

Source: Public (Class) Physical Agent «PhyAgent»
Cardinality: [0..1]

Target: Public (Class) Simulation Agent «SimAgent»
Cardinality: [0..1]

dcs

Property owned by 'Physical Agent', in package 'SPSysML Model'

dcs
Version 1.0 Phase 1.0 Proposed
yoyek created on 2022-04-12. Last modified 2022-04-13

pre

Property owned by 'Physical Agent', in package 'SPSysML Model'

pre
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

prr

Property owned by 'Physical Agent', in package 'SPSysML Model'

prr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

pve

Property owned by 'Physical Agent', in package 'SPSysML Model'

pve
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

pvr

Property owned by 'Physical Agent', in package 'SPSysML Model'

pvr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

Physical Control Subsystem

Class «PhyContSubsys» in package 'SPSysML Model'

Physical Control Subsystem
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyContSubsys» Physical Control Subsystem to «PhyAgent» Physical Agent
[Direction is 'Source -> Destination'.]

Physical Drivers

Class «PhyDriverGpSubsys» in package 'SPSysML Model'

Physical Drivers
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-10-09

STRUCTURAL PART OF Physical Drivers

pve : Property

pvr : Property

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyDriverGpSubsys» Physical Drivers to «System» Simulated-Physical
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyVirtEff» Physical Virtual Effector to «PhyDriverGpSubsys» Physical Drivers
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyVirtRec» Physical Virtual Receptor to «PhyDriverGpSubsys» Physical Drivers
[Direction is 'Source -> Destination'.]

pve

Property owned by 'Physical Drivers', in package 'SPSysML Model'

pve
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

pvr

Property owned by 'Physical Drivers', in package 'SPSysML Model'

pvr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

Physical Hardware

Class «PhyHardGpSubsys» in package 'SPSysML Model'

Physical Hardware
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-10-09

STRUCTURAL PART OF Physical Hardware

pre : Property

prr : Property

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyHardGpSubsys» Physical Hardware to «System» Simulated-Physical
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyRealRec» Physical Real Receptor to «PhyHardGpSubsys» Physical Hardware
[Direction is 'Source -> Destination'.]

Aggregation from «PhyRealEff» Physical Real Effector to «PhyHardGpSubsys» Physical Hardware
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Class) Physical Hardware «PhyHardGpSubsys» Target: Public (Block) Physical World «block»

pre

Property owned by 'Physical Hardware', in package 'SPSysML Model'

pre
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

prr

Property owned by 'Physical Hardware', in package 'SPSysML Model'

prr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

Physical Real Effector

Class «PhyRealEff» in package 'SPSysML Model'

Physical Real Effector
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «PhyRealEff» Physical Real Effector to «PhyHardGpSubsys» Physical Hardware
[Direction is 'Source -> Destination'.]

Aggregation from «PhyRealEff» Physical Real Effector to «PhyAgent» Physical Agent
[Direction is 'Source -> Destination'.]

Aggregation from «PhyRealEff» Physical Real Effector to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Physical Real Receptor

Class «PhyRealRec» in package 'SPSysML Model'

Physical Real Receptor
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «PhyRealRec» Physical Real Receptor to «PhyAgent» Physical Agent [Direction is 'Source -> Destination'.]
Aggregation from «PhyRealRec» Physical Real Receptor to «PhyHardGpSubsys» Physical Hardware [Direction is 'Source -> Destination'.]
Aggregation from «PhyRealRec» Physical Real Receptor to «HybAgent» Hybrid Agent [Direction is 'Source -> Destination'.]

Physical Virtual Effector

Class «PhyVirtEff» in package 'SPSysML Model'

Physical Virtual Effector
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «PhyVirtEff» Physical Virtual Effector to «PhyDriverGpSubsys» Physical Drivers [Direction is 'Source -> Destination'.]
Aggregation from «PhyVirtEff» Physical Virtual Effector to «HybAgent» Hybrid Agent [Direction is 'Source -> Destination'.]
Aggregation from «PhyVirtEff» Physical Virtual Effector to «PhyAgent» Physical Agent [Direction is 'Source -> Destination'.]

Physical Virtual Receptor

Class «PhyVirtRec» in package 'SPSysML Model'

Physical Virtual Receptor
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «PhyVirtRec» Physical Virtual Receptor to «PhyDriverGpSubsys» Physical Drivers [Direction is 'Source -> Destination'.]
Aggregation from «PhyVirtRec» Physical Virtual Receptor to «HybAgent» Hybrid Agent [Direction is 'Source -> Destination'.]
Aggregation from «PhyVirtRec» Physical Virtual Receptor to «PhyAgent» Physical Agent [Direction is 'Source -> Destination'.]

Physical World

Block «block» in package 'SPSysML Model'

Physical World
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-01. Last modified 2022-07-09

ASSOCIATIONS
Association (direction: Unspecified) Source: Public (Class) Physical Hardware «PhyHardGpSubsys» Target: Public (Block) Physical World «block»

Simulated-Physical

Class «System» in package 'SPSysML Model'

Simulated-Physical
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2023-03-02

STRUCTURAL PART OF Simulated-Physical
pdgs : Property
phgs : Property
sdgs : Property
sega : Property
shgs : Property

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from «HybAgent» Hybrid Agent to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «WorldMirrGpAgents» World Mirror Group of Agents to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «SimDriverGpSubsys» Simulated Drivers to «System» Simulated-Physical [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from «SimAgent» Simulation Agent to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «MirrSimGpAgents» Mirror Simulation Group of Agents to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «PhyHardGpSubsys» Physical Hardware to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «PhyAgent» Physical Agent to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «PhyDriverGpSubsys» Physical Drivers to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «SysSetupGpAgents» System Setup Group of Agents to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «SimHardGpSubsys» Simulated Hardware to «System» Simulated-Physical [Direction is 'Source -> Destination'.]
Aggregation from «MirrPhyGpAgents» Mirror Physical Group of Agents to «System» Simulated-Physical [Direction is 'Source -> Destination'.]

pdgs

Property owned by 'Simulated-Physical', in package 'SPSysML Model'

pdgs
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-01. Last modified 2022-04-13

phgs

Property owned by 'Simulated-Physical', in package 'SPSysML Model'

phgs
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-01. Last modified 2022-04-13

sdgs

Property owned by 'Simulated-Physical', in package 'SPSysML Model'

sdgs
Version 1.0 Phase 1.0 Proposed

Tomcio created on 2022-04-01. Last modified 2022-04-13

sega

Property owned by 'Simulated-Physical', in package 'SPSysML Model'

sega
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

shgs

Property owned by 'Simulated-Physical', in package 'SPSysML Model'

shgs
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-01. Last modified 2022-04-13

Simulated-Physical Control Subsystem

Class «SimPhyContSubsys» in package 'SPSysML Model'

Simulated-Physical Control Subsystem
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «SimPhyContSubsys» Simulated-Physical Control Subsystem to «PhyAgent» Physical Agent [Direction is 'Source -> Destination'.]
Aggregation from «SimPhyContSubsys» Simulated-Physical Control Subsystem to «SimAgent» Simulation Agent [Direction is 'Source -> Destination'.]
Aggregation from «SimPhyContSubsys» Simulated-Physical Control Subsystem to «HybAgent» Hybrid Agent [Direction is 'Source -> Destination'.]

Simulated Control Subsystem

Class «SimContSubsys» in package 'SPSysML Model'

Simulated Control Subsystem
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-14. Last modified 2022-07-18

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «SimContSubsys» Simulated Control Subsystem to «SimAgent» Simulation Agent [Direction is 'Source -> Destination'.]

Simulated Drivers

Class «SimDriverGpSubsys» in package 'SPSysML Model'

Simulated Drivers
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-10-09

STRUCTURAL PART OF Simulated Drivers
sve : Property
svr : Property

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «SimDriverGpSubsys» Simulated Drivers to «System» Simulated-Physical [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from «SimVirtEff» Simulated Virtual Effector to «SimDriverGpSubsys» Simulated Drivers [Direction is 'Source -> Destination'.]
Aggregation from «SimVirtRec» Simulated Virtual Receptor to «SimDriverGpSubsys» Simulated Drivers [Direction is 'Source -> Destination'.]

sve

Property owned by 'Simulated Drivers', in package 'SPSysML Model'

sve
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

svr

Property owned by 'Simulated Drivers', in package 'SPSysML Model'

svr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

Simulated Hardware

Class «SimHardGpSubsys» in package 'SPSysML Model'

Simulated Hardware

Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-10-09

STRUCTURAL PART OF Simulated Hardware

sre : Property

srr : Property

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «SimHardGpSubsys» Simulated Hardware to «System» Simulated-Physical
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «SimRealRec» Simulated Real Receptor to «SimHardGpSubsys» Simulated Hardware
[Direction is 'Source -> Destination'.]

Aggregation from «SimRealEff» Simulated Real Effector to «SimHardGpSubsys» Simulated Hardware
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Block) Simulated World «block»

Target: Public (Class) Simulated Hardware «SimHardGpSubsys»

sre

Property owned by 'Simulated Hardware', in package 'SPSysML Model'

sre
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

srr

Property owned by 'Simulated Hardware', in package 'SPSysML Model'

srr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-04-08

Simulated Real Effector

Class «SimRealEff» in package 'SPSysML Model'

Simulated Real Effector
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «SimRealEff» Simulated Real Effector to «SimAgent» Simulation Agent [Direction is 'Source -> Destination'.]
Aggregation from «SimRealEff» Simulated Real Effector to «HybAgent» Hybrid Agent [Direction is 'Source -> Destination'.]
Aggregation from «SimRealEff» Simulated Real Effector to «SimHardGpSubsys» Simulated Hardware [Direction is 'Source -> Destination'.]

Simulated Real Receptor

Class «SimRealRec» in package 'SPSysML Model'

Simulated Real Receptor
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «SimRealRec» Simulated Real Receptor to «HybAgent» Hybrid Agent [Direction is 'Source -> Destination'.]
Aggregation from «SimRealRec» Simulated Real Receptor to «SimHardGpSubsys» Simulated Hardware [Direction is 'Source -> Destination'.]
Aggregation from «SimRealRec» Simulated Real Receptor to «SimAgent» Simulation Agent [Direction is 'Source -> Destination'.]

Simulated Virtual Effector

Class «SimVirtEff» in package 'SPSysML Model'

Simulated Virtual Effector
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «SimVirtEff» Simulated Virtual Effector to «SimDriverGpSubsys» Simulated Drivers [Direction is 'Source -> Destination'.]
Aggregation from «SimVirtEff» Simulated Virtual Effector to «HybAgent» Hybrid Agent [Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «SimVirtEff» Simulated Virtual Effector to «SimAgent» Simulation Agent
[Direction is 'Source -> Destination'.]

Simulated Virtual Receptor

Class «SimVirtRec» in package 'SPSysML Model'

Simulated Virtual Receptor
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2021-09-16. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «SimVirtRec» Simulated Virtual Receptor to «SimAgent» Simulation Agent
[Direction is 'Source -> Destination'.]

Aggregation from «SimVirtRec» Simulated Virtual Receptor to «SimDriverGpSubsys» Simulated Drivers
[Direction is 'Source -> Destination'.]

Aggregation from «SimVirtRec» Simulated Virtual Receptor to «HybAgent» Hybrid Agent
[Direction is 'Source -> Destination'.]

Simulated World

Block «block» in package 'SPSysML Model'

Simulated World
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-01. Last modified 2022-04-01

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Block) Simulated World «block»

Target: Public (Class) Simulated Hardware «SimHardGpSubsys»

Simulation Agent

Class «SimAgent» in package 'SPSysML Model'

Simulation Agent
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-07-15

STRUCTURAL PART OF Simulation Agent

STRUCTURAL PART OF Simulation Agent

- dcs : Property
- sre : Property
- srr : Property
- sve : Property
- svr : Property

OUTGOING STRUCTURAL RELATIONSHIPS

- Aggregation from «SimAgent» Simulation Agent to «WorldMirrGpAgents» World Mirror Group of Agents
  [Direction is 'Source -> Destination'.]
- Aggregation from «SimAgent» Simulation Agent to «System» Simulated-Physical
  [Direction is 'Source -> Destination'.]
- Aggregation from «SimAgent» Simulation Agent to «MirrSimGpAgents» Mirror Simulation Group of Agents
  [Direction is 'Source -> Destination'.]
- Aggregation from «SimAgent» Simulation Agent to «SysSetupGpAgents» System Setup Group of Agents
  [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

- Aggregation from «SimVirtRec» Simulated Virtual Receptor to «SimAgent» Simulation Agent
  [Direction is 'Source -> Destination'.]
- Aggregation from «SimRealEff» Simulated Real Effector to «SimAgent» Simulation Agent
  [Direction is 'Source -> Destination'.]
- Aggregation from «SimContSubsys» Simulated Control Subsystem to «SimAgent» Simulation Agent
  [Direction is 'Source -> Destination'.]
- Aggregation from «SimRealRec» Simulated Real Receptor to «SimAgent» Simulation Agent
  [Direction is 'Source -> Destination'.]
- Aggregation from «SimVirtEff» Simulated Virtual Effector to «SimAgent» Simulation Agent
  [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «SimPhyContSubsys» Simulated-Physical Control Subsystem to «SimAgent» Simulation Agent
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Unspecified) mirror

Source: Public (Class) Physical Agent «PhyAgent»
Cardinality: [0..1]

Target: Public (Class) Simulation Agent «SimAgent»
Cardinality: [0..1]

dcs

Property owned by 'Simulation Agent', in package 'SPSysML Model'

dcs
Version 1.0 Phase 1.0 Proposed
yoyek created on 2022-04-12. Last modified 2022-04-13

sre

Property owned by 'Simulation Agent', in package 'SPSysML Model'

sre
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

srr

Property owned by 'Simulation Agent', in package 'SPSysML Model'

srr
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

sve

Property owned by 'Simulation Agent', in package 'SPSysML Model'

sve
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

svr

Property owned by 'Simulation Agent', in package 'SPSysML Model'

svr
Version 1.0 Phase 1.0 Proposed

Tomcio created on 2022-04-08. Last modified 2022-04-13

System Setup Group of Agents

Class «SysSetupGpAgents» in package 'SPSysML Model'

System Setup Group of Agents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2023-03-02

STRUCTURAL PART OF System Setup Group of Agents
ha : Property
pa : Property
sa : Property

OUTGOING STRUCTURAL RELATIONSHIPS
Aggregation from «SysSetupGpAgents» System Setup Group of Agents to «System» Simulated-Physical [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from «WorldMirrGpAgents» World Mirror Group of Agents to «SysSetupGpAgents» System Setup Group of Agents [Direction is 'Source -> Destination'.]
Aggregation from «PhyAgent» Physical Agent to «SysSetupGpAgents» System Setup Group of Agents [Direction is 'Source -> Destination'.]
Aggregation from «SimAgent» Simulation Agent to «SysSetupGpAgents» System Setup Group of Agents [Direction is 'Source -> Destination'.]
Aggregation from «HybAgent» Hybrid Agent to «SysSetupGpAgents» System Setup Group of Agents [Direction is 'Source -> Destination'.]

ha

Property owned by 'System Setup Group of Agents', in package 'SPSysML Model'

ha
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

pa

Property owned by 'System Setup Group of Agents', in package 'SPSysML Model'

pa
Version 1.0 Phase 1.0 Proposed
yoyek created on 2022-04-12. Last modified 2022-04-13

sa

Property owned by 'System Setup Group of Agents', in package 'SPSysML Model'

sa
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-04-08. Last modified 2022-04-13

World Mirror Group of Agents

Class «WorldMirrGpAgents» in package 'SPSysML Model'

World Mirror Group of Agents
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-15

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «WorldMirrGpAgents» World Mirror Group of Agents to «SysSetupGpAgents» System Setup Group of Agents
[Direction is 'Source -> Destination'.]

Aggregation from «WorldMirrGpAgents» World Mirror Group of Agents to «System» Simulated-Physical
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «SimAgent» Simulation Agent to «WorldMirrGpAgents» World Mirror Group of Agents
[Direction is 'Source -> Destination'.]

Object

Object «PhyDriverGpSubsys» in package 'SPSysML Model'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «PhyDriverGpSubsys» Object to «PhyHardGpSubsys» Object
[Name is Communication controller interface. Direction is 'Bi-Directional'.]

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimPhyContSubsys» Object to «PhyDriverGpSubsys» Object
[Name is Universal inter-embodiment interface. Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Communication controller interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» Universal inter-embodiment interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks» Communication controller interface

Source: Public (Object) Object «PhyDriverGpSubsys»

Target: Public (Object) Object «PhyHardGpSubsys»

Information Flow (direction: Bi-Directional) «GpLinks» Universal inter-embodiment interface

Source: Public (Object) Object «SimPhyContSubsys»

Target: Public (Object) Object «PhyDriverGpSubsys»

Object

Object «PhyHardGpSubsys» in package 'SPSysML Model'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «PhyDriverGpSubsys» Object to «PhyHardGpSubsys» Object
[Name is Communication controller interface. Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Communication controller interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks» Communication controller interface

ASSOCIATIONS

Source: Public (Object) Object «PhyDriverGpSubsys» Target: Public (Object) Object «PhyHardGpSubsys»

Object

Object in package 'SPSysML Model'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13

Object

Object «SimPhyContSubsys» in package 'SPSysML Model'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2023-03-02

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimPhyContSubsys» Object to «SimDriverGpSubsys» Object
[Name is Universal inter-embodiment interface. Direction is 'Bi-Directional'.]

Information Flow «GpLinks» from «SimPhyContSubsys» Object to «PhyDriverGpSubsys» Object
[Name is Universal inter-embodiment interface. Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Universal inter-embodiment interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» Universal inter-embodiment interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks» Universal inter-embodiment interface

Source: Public (Object) Object «SimPhyContSubsys» Target: Public (Object) Object «SimDriverGpSubsys»

Information Flow (direction: Bi-Directional) «GpLinks» Universal inter-embodiment interface

Source: Public (Object) Object «SimPhyContSubsys» Target: Public (Object) Object «PhyDriverGpSubsys»

Object

Object «SimDriverGpSubsys» in package 'SPSysML Model'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-23

OUTGOING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimDriverGpSubsys» Object to «SimHardGpSubsys» Object
[Name is Simulation environment universal interface. Direction is 'Bi-Directional'.]

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimPhyContSubsys» Object to «SimDriverGpSubsys» Object
[Name is Universal inter-embodiment interface. Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Simulation environment universal interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

Information Flow «GpLinks» Universal inter-embodiment interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks» Simulation environment universal interface

Source: Public (Object) Object «SimDriverGpSubsys»
Target: Public (Object) Object «SimHardGpSubsys»

Information Flow (direction: Bi-Directional) «GpLinks» Universal inter-embodiment interface

Source: Public (Object) Object «SimPhyContSubsys»
Target: Public (Object) Object «SimDriverGpSubsys»

Object

Object «SimHardGpSubsys» in package 'SPSysML Model'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-23

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

Information Flow «GpLinks» from «SimDriverGpSubsys» Object to «SimHardGpSubsys» Object
[Name is Simulation environment universal interface. Direction is 'Bi-Directional'.]

CONNECTORS

Information Flow «GpLinks» Simulation environment universal interface Bi-Directional
From: Object : Object, Public
To: Object : Object, Public

ASSOCIATIONS

Information Flow (direction: Bi-Directional) «GpLinks» Simulation environment universal interface

Source: Public (Object) Object «SimDriverGpSubsys»

Target: Public (Object) Object «SimHardGpSubsys»

Object

Object in package 'SPSysML Model'

Object
Version 1.0 Phase 1.0 Proposed
Tomcio created on 2022-07-13. Last modified 2022-07-13