

VANT

Logical View Report

Unified Modeling Language Syntax

Includes Attributes And Operations

Sorted

Includes Documentation

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LOGICAL VIEW REPORT

Logical View

VANT

Capsula do sistema completo.

VCNS_ATM

VCTR

VSUP

Capsula superior do VSUP.

Protocolos

AcquiredValue

In Signals:

value

Out Signals:

request

ActuatorProtocol

Out Signals:

decrease
increase

AlarmDialog

Protocolo de comunicacao interna do VSUP no que diz respeito a central de alarmes.

In Signals:

alarm
alarmTest
initAlarm
turnOff

Out Signals:

initOk
testResult

BlackBox

Out Signals:

value

BlackBoxDialog

Protocolo de comunicacao interna do VSUP no que diz respeito a caixa preta.

In Signals:

blackBoxRead
initBlackBox
insertLog
turnOff

Out Signals:

blackBoxData
initOk

Comunicacao

Protocolo de comunicação interna entre o dispositivo de comunicação do VANT e o controlador do VANT.

In Signals:

ackFinalizar
ackIniciar

Out Signals:

finalizarTransmissao
iniciarTransmissao

EnergyInfo

Protocolo que o VANT envia para o VSUP monitorar informacoes de energia.

In Signals:

info

InterruptRequest

Protocolo que as USCs usam para enviar um pedido de interrupcao para o VSUP.

In Signals:

req

Navegacao

Protocolo de comunicação entre o controlador VANT, o VANT e a Torre de Controle do Tráfego Aéreo.

In Signals:

alerta

Out Signals:

altitude
aterissagem
decolagem
direcao

SystemDialog

Protocolo com o operador para iniciar e operar o sistema.

In Signals:

shutDown
start

Out Signals:

done

USCArm

Protocolo em que a USC usa para enviar um alarme para o VSUP.

In Signals:

alarm

USCBlackBox

Protocolo em que a USC envia uma informacao a ser armazenada na caixa preta do VSUP.

In Signals:

log

Vigilancia

Protocolo de comunicação interna entre a câmera do VANT e o controlador do VANT.

In Signals:

ackFinalizar
ackFoto
ackIniciar

Out Signals:

finalizarGravacao
fotografar
iniciarGravacao

flightCommand

In Signals:

ack

Out Signals:

altitude
latitude
longitude
power
turnOff
turnOn

RTClasses

RTActorId

Derived from RTDataObject

RTBoolean

Derived from RTInteger

RTByteBlock

Derived from RTDataObject

RTCharacter

Derived from RTDataObject

RTDataObject

RTEnumerated

Derived from RTDataObject

RTInteger

Derived from RTDataObject

RTMessage

RTPointer

Derived from RTByteBlock

RTReal

Derived from RTDataObject

RTSequence

Derived from RTDataObject

RTSequenceOf

Derived from RTDataObject

RTString

Derived from RTDataObject

RTTime

Derived from RTSequence

RTTimerId

RTTimespec

Exception

In Signals:

arithmeticError
error
notFoundError
notUnderstoodError
serviceAccessError
streamError
subclassResponsibilityError
timeSliceError
userError

External

In Signals:

event

Frame

Log

Timing

In Signals:

timeout

VCNS_ATM

Camera

Cápsula para captura e gravação de imagens e envia os arquivos de foto e vídeo para o dispositivo de armazenamento.

Comunicador

Cápsula para comunicação do VANT com a torre de controle.

Private Attributes:

intervaloTransmissao : RTTimespec = 1,0

timerId : RTTimerId

ControleTrafego

Controle do tráfego aéreo.

Private Attributes:

altitudeSolicitada : int = 0

direcaoSolicitada : int = 0

VCTR

AltitudeSensor

Derived from Sensor

Controller

Protected Attributes:

measureFrequency : RTTimespec = 0, 500000000
storedValue : RTInteger = 0

FlightControl

Private Attributes:

minFuel : RTInteger = 0
refAltitude : RTInteger = 1000
refLatitude : RTInteger = 1000
refLongitude : RTInteger = 1000
refPower : RTInteger = 1000
timeStep : RTTimespec = 0, 100000000

FuelSensor

Derived from Sensor

LatitudeSensor

Derived from Sensor

LongitudeSensor

Derived from Sensor

PowerSensor

Derived from Sensor

Sensor

Protected Attributes:

measuredValue : RTInteger = 0

VSUP

AlarmController

Controlador do sinais de alarme do V-SUP.

Private Attributes:

isOn : bool = false

BlackBoxController

Controlador da caixa preta do VSUP.

Private Attributes:

isOn : bool = false

SystemController

Controlador do sistema. Recebe mensagens do operador e de outras USCs. Controla a inicializacao do sistema.

TOTALS:

10 Logical Packages
22 Classes
18 Capsules
19 Protocols

LOGICAL PACKAGE STRUCTURE

Logical View
 Protocolos
 RTClasses
 VCNS_ATM
 VCTR
 VSUP