G54DIA - Class Diagram

Cell

getPoint()

Point

x
y

Point()
equals()
toString()
clone()
hashCode()

point

EmptyCell

EmptyCell()

DefaultCell

DefaultCell()
getPoint()

FuelPump

FUEL_YIELD

FuelPump()

Well

WATER_YIELD

Well()

Station

NEW_TASK_PROBABILITY

Station()
generateTask()
getTask()
removeTask()
clone()
equals()

station

Tanker

fuelLevel
waterLevel
completedCount
waterDelivered
MAX_FUEL
MAX_WATER
VIEW_RANGE

senseAndAct()
useFuel()
getFuelLevel()
getWaterLevel()
getPosition()
getCurrentCell()
getCompletedCount()
incCompleted()
getScore()

position

FUEL_PUMP_LOCATION

Task

MAX_DEMAND
demand
supplied
accepted
completed

Task()
getStationPosition()
getWaterDemand()
isComplete()
getRequired()
setWaterDemand()
accept()
supply()

task

DemoTanker

DemoTanker()
senseAndAct()

Environment

timestep

Environment()
Environment()
getView()
getViewerSafeCell()
getCell()
getTimestep()
tick()
putCell()
generateTasks()

<<ArrayList>>
stations

<<Map>>
map

Action

execute()

target

DeliverWaterAction

DeliverWaterAction()
execute()
toString()

task

LoadWaterAction

LoadWaterAction()
execute()
toString()

CellFactory

generateCell()

cfactory

MoveTowardsAction

MoveTowardsAction()
execute()
toString()

MoveAction

direction
NORTH
SOUTH
EAST
WEST
NORTHEAST
NORTHWEST
SOUTHEAST
SOUTHWEST
DIRECTION
MoveAction()
execute()
toString()

RefuelAction

RefuelAction()
execute()
toString()

DefaultCellFactory

DEFAULT_STATION_DENSITY
DEFAULT_WELL_DENSITY

DefaultCellFactory()
generateCell()