BlueOriginSatellite

- List<String> deviceHandle
- Int maxConnection
- Int maxLaptops
- Int maxDesktops
- + BlueOriginSatellite(String id, String type, double height, double position): Constructor
- + addConnections(Device i, LocalTime now,Int currentDay): void
- + removeConnections(Device i, LocalTime now,Int currentDay): void
- + stopNow(ConnectInfo i, LocalTime now) void + getDeviceHandle(): List<String>

NasaSatellite

- List<String> deviceHandle
- Int maxConnection
- " + BlueOriginSatellite(String id, String type, double height, double position): Constructor
- + addConnections(Device i, LocalTime now,Int currentDay): void
- + removeConnections(Device i, LocalTime now,Int currentDay): void
- + stopNow(ConnectInfo i, LocalTime now) void
- + getDeviceHandle(): List<String>

SpaceXSatellite

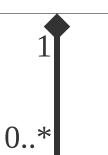
- List<String> deviceHandle
- Int maxConnection
- + BlueOriginSatellite(String id, String type, double height, double position): Constructor
- + addConnections(Device i, LocalTime now,Int currentDay): void
- + removeConnections(Device i, LocalTime now,Int currentDay): void + stopNow(ConnectInfo i, LocalTime now) void
- + getDeviceHandle(): List<String>

SovietSatellite

- List<String> deviceHandle
- Int maxConnection
- + BlueOriginSatellite(String id, String type, double height, double position): Constructor
- + addConnections(Device i, LocalTime now,Int currentDay): void
- + removeConnections(Device i, LocalTime now,Int currentDay): void
- + stopNow(ConnectInfo i, LocalTime now) void
- + getDeviceHandle(): List<String>

Satellite

- List<Device> connections
- List<Device> possibleConnections
- ArrayList<ConnectInfo> connectInfos
- List<String> deviceHandle
- List<Satellite> satelliteList
- String id
- String type
- Double height
- Double position - Double velocity
- Double angular Velocity
- + Satellite(String id, String type, double height, double position): Constructor
- + addConnectInfos(ConnectInfo i): void
- + getConnectInfos(): <ConnectInfo> connectInfos
- + getAngularVelocity():Int velocity
- + getConnections(): List<Device>
- + addConnectionsDevice(Device i): void
- + removeConnectionsDevice(Device i): void
- + getDeviceHandle(): List<String>
- + getPossibleConnections(): List<Device>
- + addPossibleConnections(Device i): void
- + cleanPossibleConnections(): void
- + isBetween(LocalTime candidate, LocalTime start, LocalTime end): Boolean
- + addConnections(Device i, LocalTime now,Int currentDay): void
- + removeConnections(Device i, LocalTime now, Int currentDay): void
- + stopNow(ConnectInfo i, LocalTime now): void
- + getNumberOfConnections(): Int
- + getNumberOfHandheldDeviceConnections(): Int
- + getNumberOfLaptopDeviceConnections(): Int
- + getNumberOfDesktopDeviceConnections(): Int
- + setVelocity(Double velocity): void
- + getId(): String
- + setId(String id): void
- + getType(): String
- + setType(String type): void
- + getHeight(): Double
- + setHeight(Double height): void
- + getPosition(): Double
- + setPosition(Double position, Int minutePass): void
- + setPositionForSOVIET(Double position): void
- + getVelocity(): Double



ConnectInfo

- LocalTime startTime
- LocalTime endTime
- Int minutesActive
- String satelliteConnectedId
- String deviceId
- boolean isConnected
- Int currentDay
- Int timeToConnect
- + ConnectInfo(String deviceId, String satelliteConnectedId, LocalTime startTime, boolean isConnected, Int timeToConnect): Constructor
- + getTimeToConnect(): Localtime
- + setTimeToConnect(Int timeToConnect): void
- + getCurrentDay(): Int
- + setCurrentDay(Int currentDay): void
- + getIsConnected(): Boolean
- + setIsConnected(boolean isConnected): void
- + getStartTime(): Localtime
- + setStartTime(LocalTime startTime): void + getEndTime(): Localtime
- + setEndTime(LocalTime endTime): void
- + getMinutesActive(): Int
- + setMinutesActive(Int minutesActive): void
- + getSatelliteConnectedId(): String
- + setSatelliteConnectedId(String satelliteConnectedId): void
- + getDeviceId(): String
- + setDeviceId(String id): void

Blackout - String HandheldDevice - String LaptopDevice - String DesktopDevice - List<Device> deviceList List<Satellite> satelliteList - LocalTime now - Int currentDay - Int minute + createDevice(String id, String type, double position): void + createSatellite(String id, String type, double height, double position): void

- + removeSatellite(String id): void
- + removeDevice(String id): void
- + moveDevice(String id, double newPosition): void
- + addPossibleConnection(): void
- + cleanPossibleConnection(): void
- + assemblyJSON(JSONArray devices, JSONArray satellites): void
- + showWorldState(): JSONobject
- + scheduleDeviceActivation(String deviceId, LocalTime start, Int durationInMinutes):
- + simulate(Int tickDurationInMinutes): void
- + printDeviceList(): void
- + printSatelliteList(): void

Device - LocalTime startTime 0 * - LocalTime endTime - ArrayList<Hashtable<String, LocalTime>> activationPeriods - Double position String id - boolean isConnected - Int currentDay

- + Device(String id, String type, double position, Int timeToConnect): Constructor
- + scheduleDeviceActivation(LocalTime start, Int durationInMinutes):
- + getActivationPeriods(): ArrayList<Hashtable<String, LocalTime>> + getActivationPeriodsStart(Hashtable<String, LocalTime> newTable): LocalTime
- + getActivationPeriodsEnd(Hashtable<String, LocalTime> newTable): LocalTime
- + getId(): string
- + setId(String id): void
- + getType(): string

- Int timeToConnect

- + setType(String type): void
- + getIsConnected(): Boolean
- + setIsConnected(boolean isConnected): void
- + getPosition(): Double + setPosition(Double position): void
- + getTimeToConnect(): Int
- + setTimeToConnect(Int timeToConnect): void
- + getStartTime(): LocalTime
- + setStartTime(LocalTime startTime): void + getEndTime(): LocalTime
- + setEndTime(LocalTime endTime): void