EntityInfoResponse

+ id: String
+ position: Angle
+ height: double
+ type: String
+ files: Map<String, FileInfoResponse>

+ toString(): Void
+ equals(obj: Object): boolean

FileInfoResponse

- filename: String
- data: String
- fileSize: int
- isFileComplete: boolean

+ getFilename(): String
+ getData(): String
+ getFileSize(): int
+ isFileComplete(): boolean

+ toString(): Void
+ equals(obj: Object): boolean
+ hashCode(): int

Entity

- id: String
- position: Angle
- height: double
- type: String
- maxRange: int
- files: Map<String, FileInfoResponse>

+ getId(): String
+ getType(): String
+ getPosition(): Angle
+ getHeight(): double
+ getMaxRange(): int
+ getFiles(): Map<String, FileInfoResponse>

BlackoutController

- deviceList: List<Device>
- satelliteList: List<StandardSatellite>

+ simulate(): Void
+ simulate(numberOfMinutes: int): Void
+ communicableEntitiesInRange(id: String): List<String>
+ sendFile(fileName: String, fromId: String, toId: String): Void

- findEntity(id: String): Entity
- findDevice(id: String): Device
- findSatellite(id: String): StandardSatellite

+ createDevice(deviceId: String, type: String, position: Angle): Void
+ removeDevice(deviceId: String): Void
+ createSatellite(satelliteId: String, type: String, height: double , Angle position): Void
+ removeSatellite(satelliteId: String): Void
+ listDeviceIds(): List<String>
+ listSatelliteIds(): List<String>
+ addFileToDevice(deviceId: String, filename: String, content: String): Void
+ getInfo(id: String): EntityInfoResponse

StandardSatellite

- speed: int
- storageByteLimit: int
- storeageFileLimit: int
- direction: int
- supportedDevices: List<String>

+ getSpeed(): int
+ getSupportedDevices(): List<String>
+ getStorageByteLimit(): int
+ getStorageFileLimit(): int
+ getDirection(): int
+ setDirection(direction: int): Void

Device

Device(deviceId: String, type: String, position: Angle)

0..*

FileTransferException

+ FileTransferException(message: String)
+ VirtualFileNotFoundException(message: String)
+ VirtualFileAlreadyExistsException(message: String)
+ VirtualFileNoBandwidthException(message: String)
+ VirtualFileNoStorageSpaceException(message: String)

TeleportingSatellite

+ setPosition(position: Angle): Void

RelaySatellite

+ relayFile(file: File): Void