

ReadWriteJason
JsonReadWriteHelper() fileToString(jsonFilePath:String):String getDeviceObjectFrom DeviceJson(json:String):Device getNetListObjectFrom NetListJson(json:String):HashMap<String,String> getLimitObjectFrom LimitJson(json:String,type:String):Limit convertTopology ToJsonString(topology:Topology):String getComponents Map(deviceArrayList:ArrayList<Device>):ArrayList<Object> read(jsonFilePath:String):Topology write(topology:Topology,jsonFilePath:String):void

API
API() searchTopologyID(topologyID:String):Topology readJSON(jsonFilePath:String):void writeJSON(topologyID:String,jsonFilePath:String):void queryTopologies():ArrayList<Topology> query Devices(topologyID:String):ArrayList<Device> query Devices With NetListNode(topologyID:String):ArrayList<Device> delete Topology(topologyID:String):void

Topology
ID:String components:ArrayList<Device>
getID():String setID(ID:String):void getComponents():ArrayList<Device> setComponents(components:ArrayList<Device>):void getDevices With NetListNode(node:String):ArrayList<Device> equals(obj:Object):boolean equalsComponents(components:ArrayList<Device>):boolean

Constrain
type:String IddefaultValue:double minValue:double maxValue:double
Limit(type:String,defaultValue:double,minValue:double,maxValue:double) setDefaultValue(defaultValue:double):void getMinValue():double setMinValue(minValue:double):void getMaxValue():double setMaxValue(maxValue:double):void getType():String setType(type:String):void equals(obj:Object):boolean

Device
- type:String - id:Constrain - netList:HashMap<String, String>
+ Device(type:String,ID:String,limit:Limit,netList:HashMap<String,String>) + getType():String + setType(type:String):void + getID():String + setID(ID:String));void + getLimit():Limit + setLimit(limit:Limit):void + getNetList():HashMap<String,String> + setNetList(netList:HashMap<String,String>):void + isConnected(node:String):boolean + equals(obj:Object):boolean

