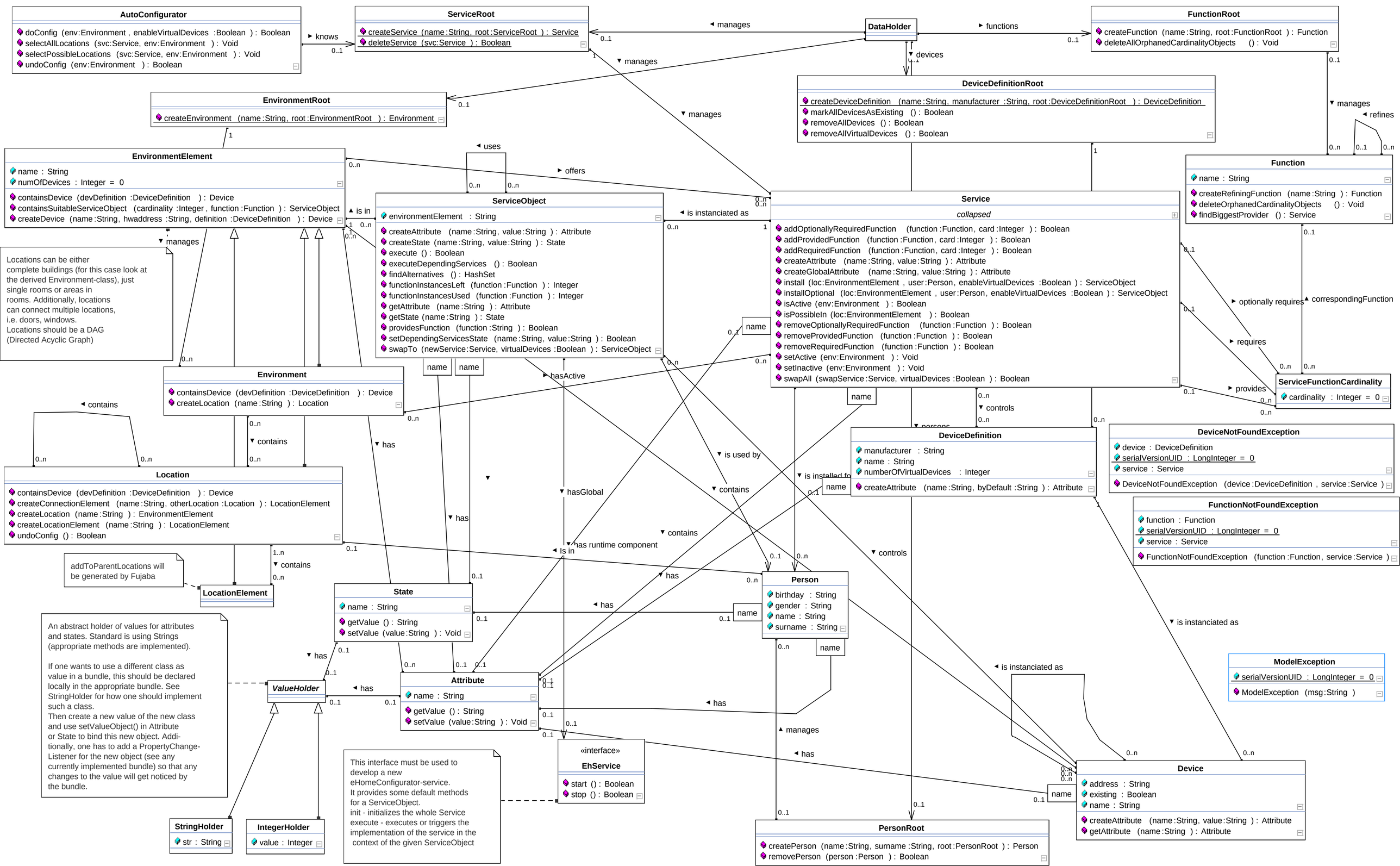
AutoConfigurator
doConfig (env:Environment , enableVirtualDevices :Boolean) : Boolean
selectAllLocations (svc:Service, env:Environment) : Void
selectPossibleLocations (svc:Service, env:Environment) : Void
undoConfig (env:Environment) : Boolean
knows
ServiceRoot
createService (name:String, root:ServiceRoot) : Service
deleteService (svc:Service) : Boolean
manages
DataHolder
functions
FunctionRoot
createFunction (name:String, root:FunctionRoot) : Function
deleteAllOrphanedCardinalityObjects () : Void
devices
DeviceDefinitionRoot
createDeviceDefinition (name:String, manufacturer :String, root:DeviceDefinitionRoot) : DeviceDefinition
markAllDevicesAsExisting () : Boolean
removeAllDevices () : Boolean
removeAllVirtualDevices () : Boolean
refines
EnvironmentRoot
createEnvironment (name:String, root:EnvironmentRoot) : Environment
EnvironmentElement
name : String
numOfDevices : Integer = 0
containsDevice (devDefinition :DeviceDefinition) : Device
containsSuitableServiceObject (cardinality :Integer , function :Function) : ServiceObject
createDevice (name:String, hwaddress :String, definition :DeviceDefinition) : Device
uses
offers
is in
ServiceObject
environmentElement : String
createAttribute (name:String, value:String) : Attribute
createState (name:String, value:String) : State
execute () : Boolean
executeDependingServices () : Boolean
findAlternatives () : HashSet
functionInstancesLeft (function :Function) : Integer
functionInstancesUsed (function :Function) : Integer
getAttribute (name:String) : Attribute
getState (name:String) : State
providesFunction (function :String) : Boolean
setDependingServicesState (name:String, value:String) : Boolean
swapTo (newService:Service, virtualDevices :Boolean) : ServiceObject
is instanciated as
Service
collapsed
addOptionallyRequiredFunction (function :Function, card :Integer) : Boolean
addProvidedFunction (function :Function, card :Integer) : Boolean
addRequiredFunction (function :Function, card :Integer) : Boolean
createAttribute (name:String, value:String) : Attribute
createGlobalAttribute (name:String, value:String) : Attribute
install (loc:EnvironmentElement , user:Person, enableVirtualDevices :Boolean) : ServiceObject
installOptional (loc:EnvironmentElement , user:Person, enableVirtualDevices :Boolean) : ServiceObject
isActive (env:Environment) : Boolean
isPossibleIn (loc:EnvironmentElement) : Boolean
removeOptionallyRequiredFunction (function :Function) : Boolean
removeProvidedFunction (function :Function) : Boolean
removeRequiredFunction (function :Function) : Boolean
setActive (env:Environment) : Void
setInactive (env:Environment) : Void
swapAll (swapService :Service, virtualDevices :Boolean) : Boolean
Function
name : String
createRefiningFunction (name:String) : Function
deleteOrphanedCardinalityObjects () : Void
findBiggestProvider () : Service
optionally requires
correspondingFunction
requires
provides
ServiceFunctionCardinality
cardinality : Integer = 0
Locations can be either complete buildings (for this case look at the derived Environment-class), just single rooms or areas in rooms. Additionally, locations can connect multiple locations, i.e. doors, windows. Locations should be a DAG (Directed Acyclic Graph)
Environment
containsDevice (devDefinition :DeviceDefinition) : Device
createLocation (name:String) : Location
contains
has
hasActive
hasGlobal
is used by
controls
persons
DeviceDefinition
manufacturer : String
name : String
numberOfVirtualDevices : Integer
createAttribute (name:String, byDefault :String) : Attribute
DeviceNotFoundException
device : DeviceDefinition
serialVersionUID : LongInteger = 0
service : Service
DeviceNotFoundException (device:DeviceDefinition , service:Service)
FunctionNotFoundException
function : Function
serialVersionUID : LongInteger = 0
service : Service
FunctionNotFoundException (function :Function, service:Service)
Location
containsDevice (devDefinition :DeviceDefinition) : Device
createConnectionElement (name:String, otherLocation :Location) : LocationElement
createLocation (name:String) : EnvironmentElement
createLocationElement (name:String) : LocationElement
undoConfig () : Boolean
addToParentLocations will be generated by Fujaba
LocationElement
has runtime component
Is in
State
name : String
getValue () : String
setValue (value:String) : Void
Person
birthday : String
gender : String
name : String
surname : String
ModelException
serialVersionUID : LongInteger = 0
ModelException (msg:String)
ValueHolder
Attribute
name : String
getValue () : String
setValue (value:String) : Void
manages
An abstract holder of values for attributes and states. Standard is using Strings (appropriate methods are implemented).
If one wants to use a different class as value in a bundle, this should be declared locally in the appropriate bundle. See StringHolder for how one should implement such a class.
Then create a new value of the new class and use setValueObject() in Attribute or State to bind this new object. Addi-tionally, one has to add a PropertyChange-Listener for the new object (see any currently implemented bundle) so that any changes to the value will get noticed by the bundle.
«interface»
EhService
start () : Boolean
stop () : Boolean
This interface must be used to develop a new eHomeConfigurator-service. It provides some default methods for a ServiceObject. init - initializes the whole Service execute - executes or triggers the implementation of the service in the context of the given ServiceObject
Device
address : String
existing : Boolean
name : String
createAttribute (name:String, value:String) : Attribute
getAttribute (name:String) : Attribute
StringHolder
str : String
IntegerHolder
value : Integer
PersonRoot
createPerson (name:String, surname :String, root:PersonRoot) : Person
removePerson (person :Person) : Boolean
name
0..1
0..n
1