

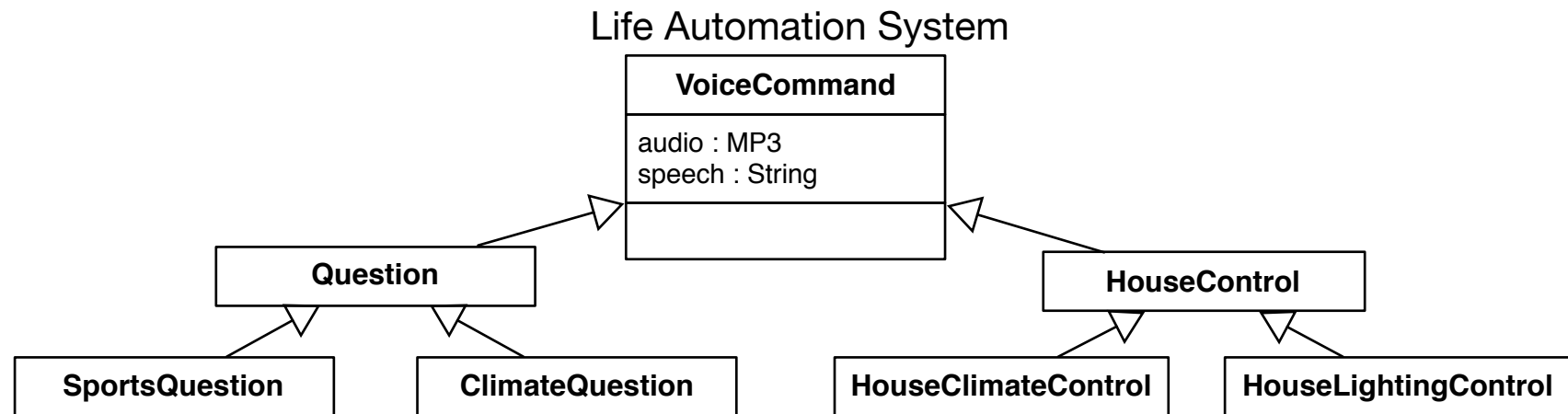
What pattern should we use for the requests ?

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

<u>light-4 : Service</u>
switch
on() off()

<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)



Use the Command Pattern :
First determine the command type
so we can send it to the right service

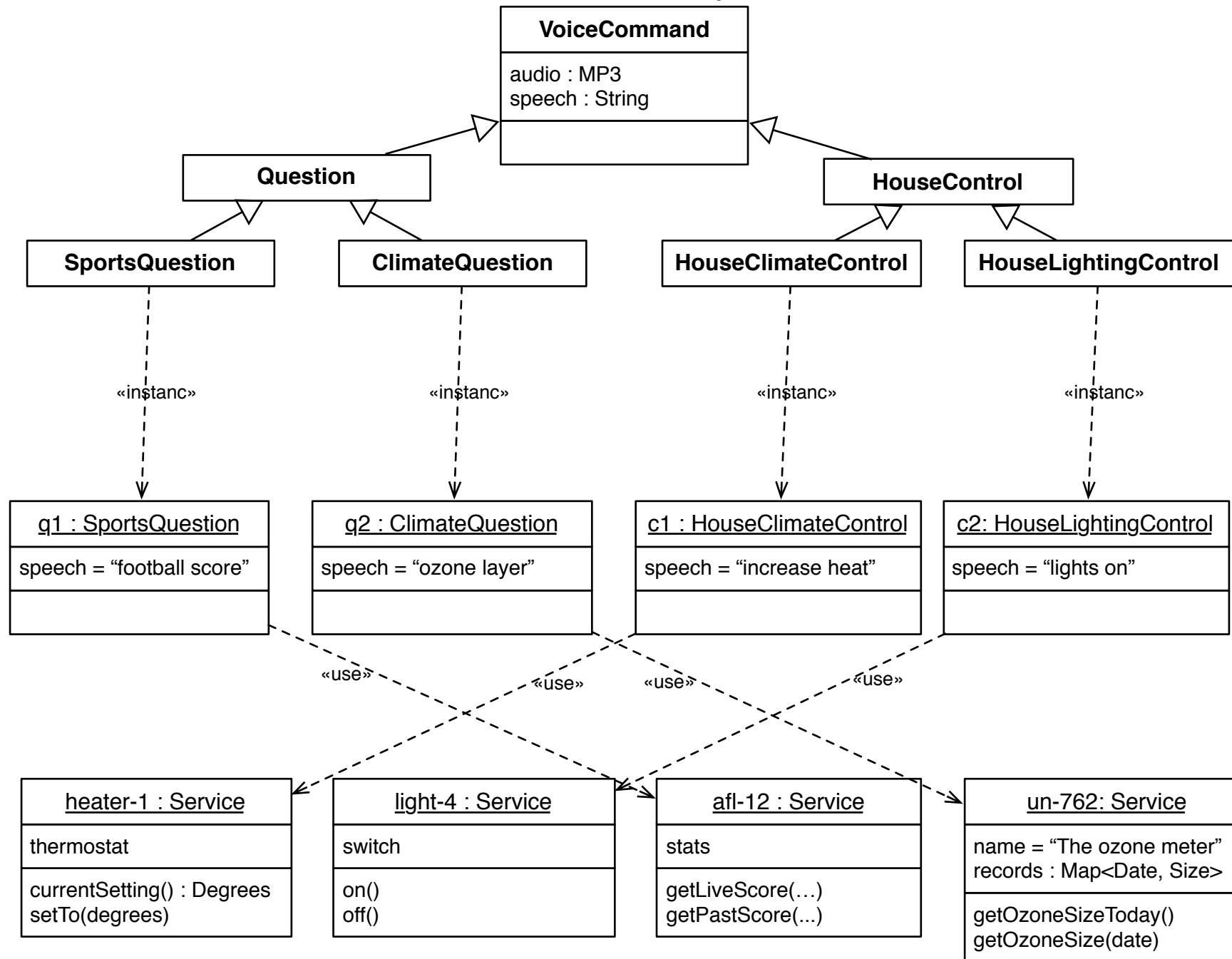
<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

<u>light-4 : Service</u>
switch
on() off()

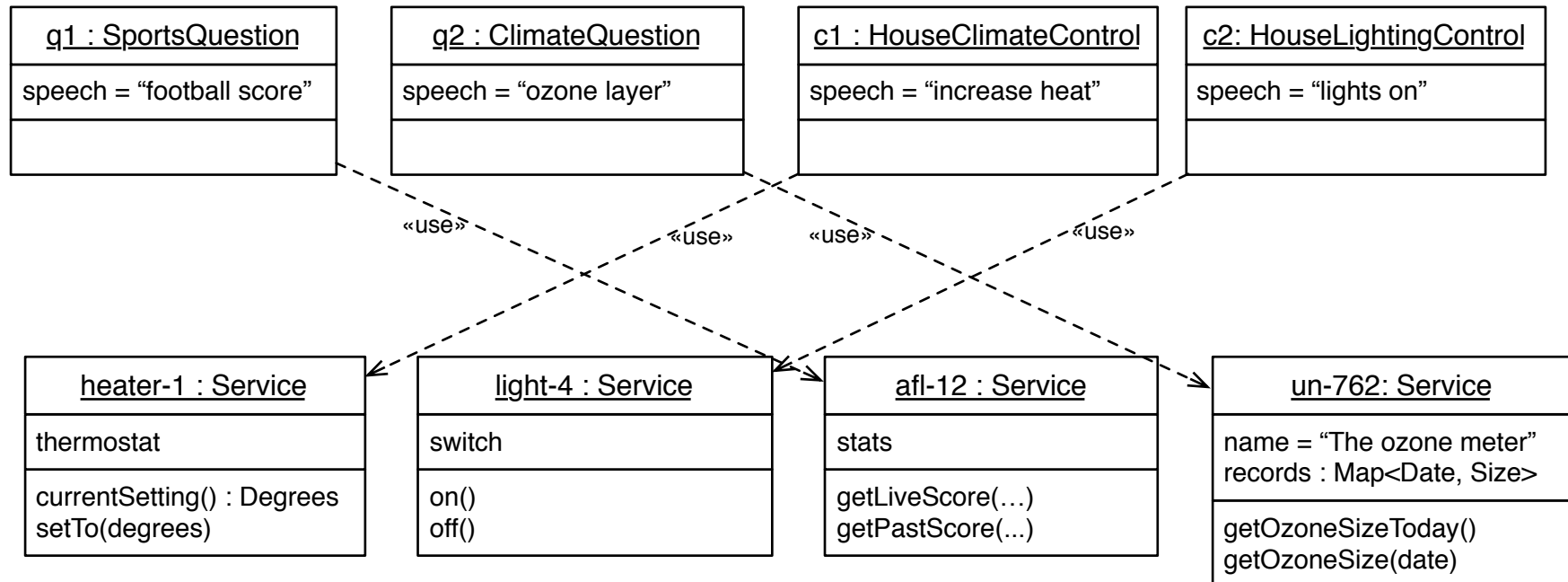
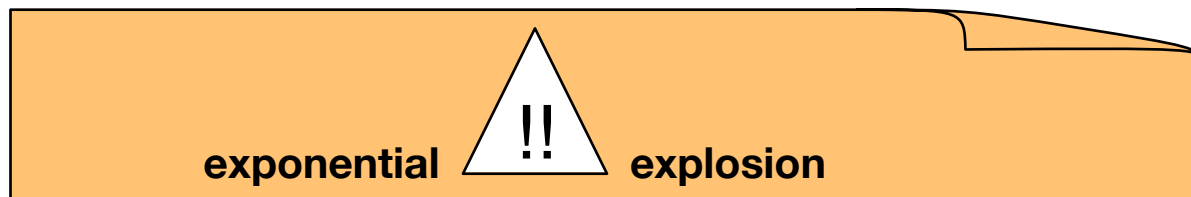
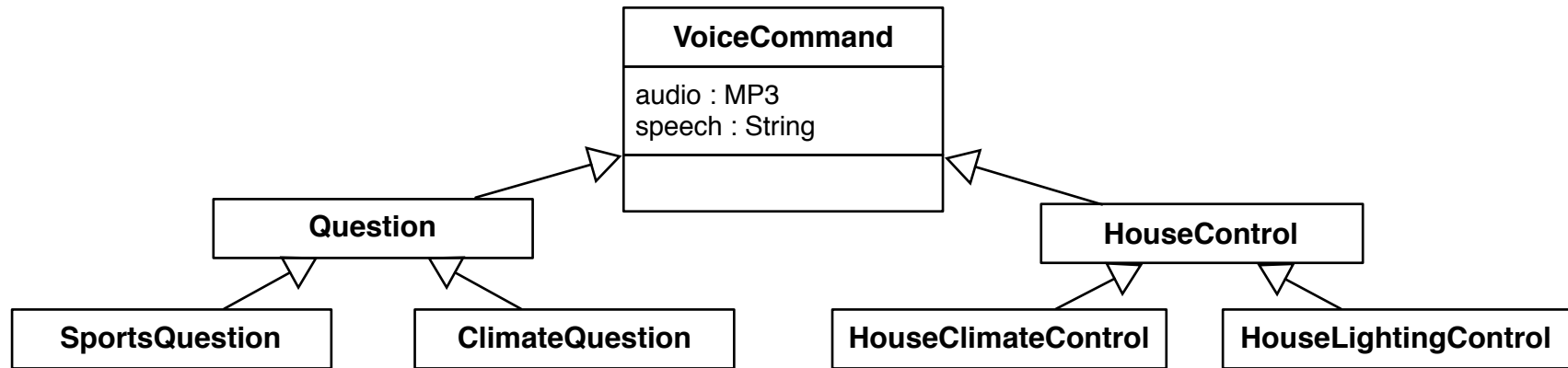
<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

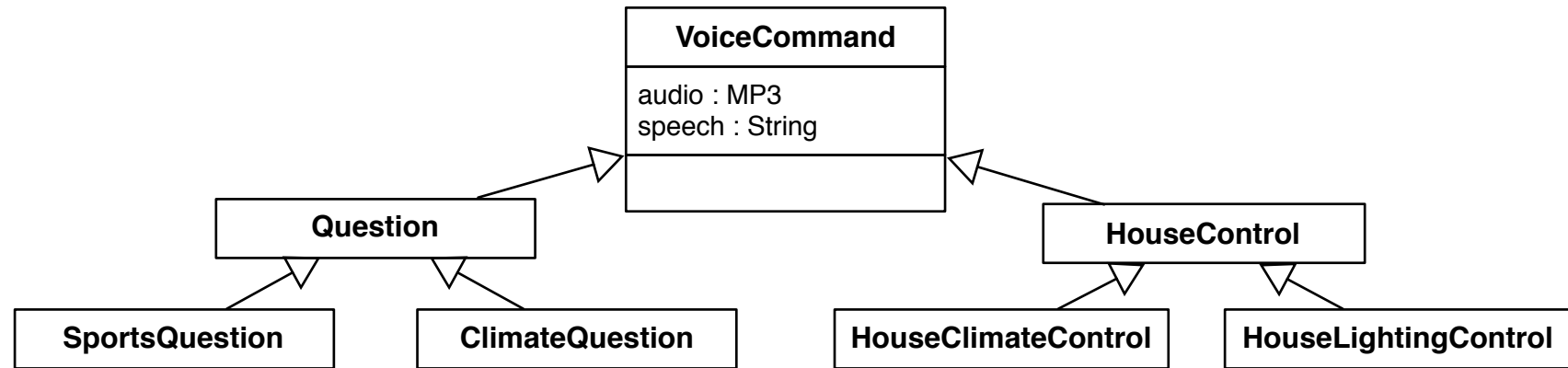
Life Automation System



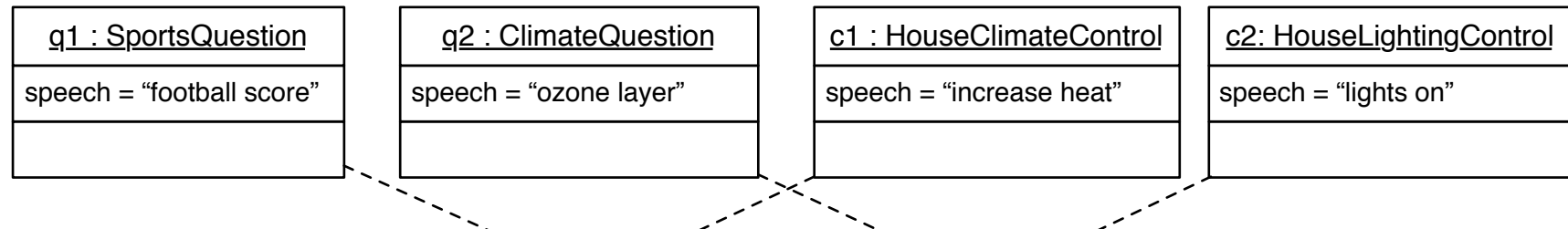
Life Automation System



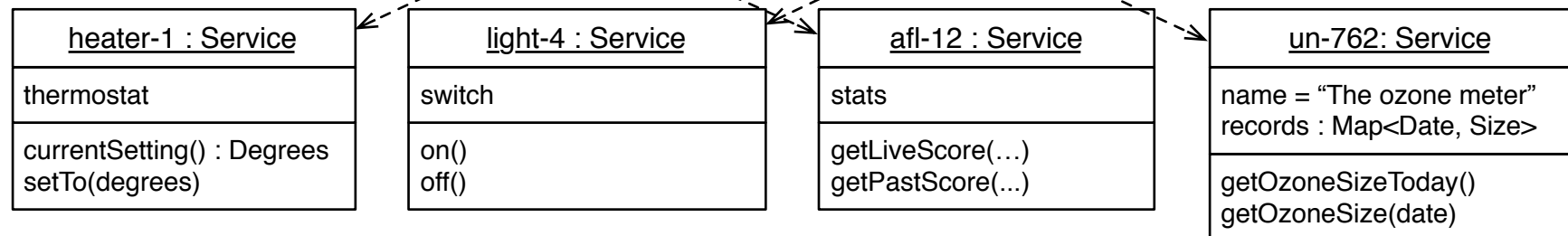
Life Automation System



types pre-defined !! statically



hard to link command objects to services when services are dynamic also



Life Automation System with Command

Command
english : String

What other pattern should we use ?

<u>light-4 : Service</u>
switch
on() off()

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

Life Automation System with Command and Chain of Responsibility

Command
english : String

Chain of Responsibility (as well as Command)

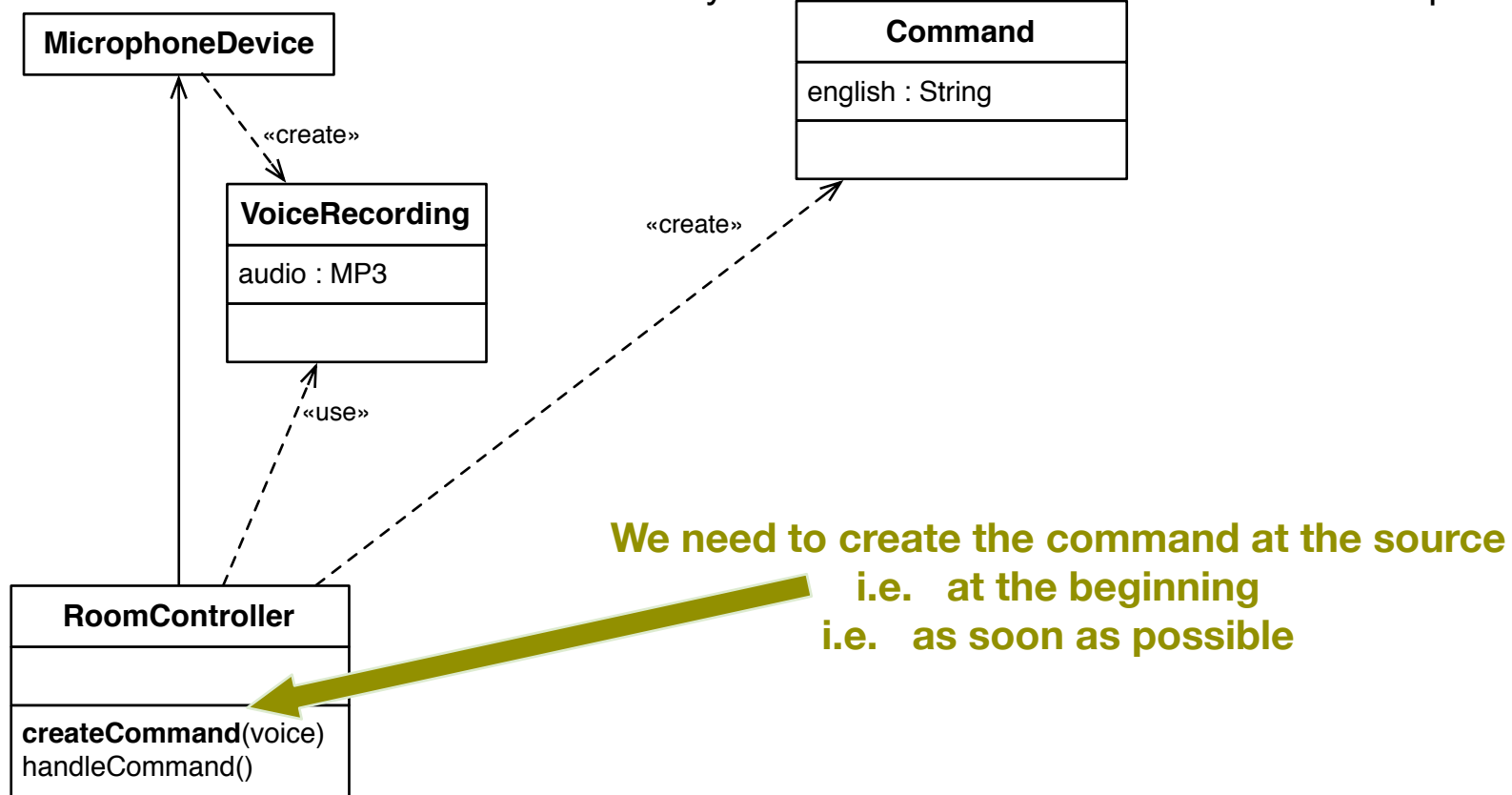
<u>light-4 : Service</u>
switch
on() off()

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

Life Automation System with Command and Chain of Responsibility



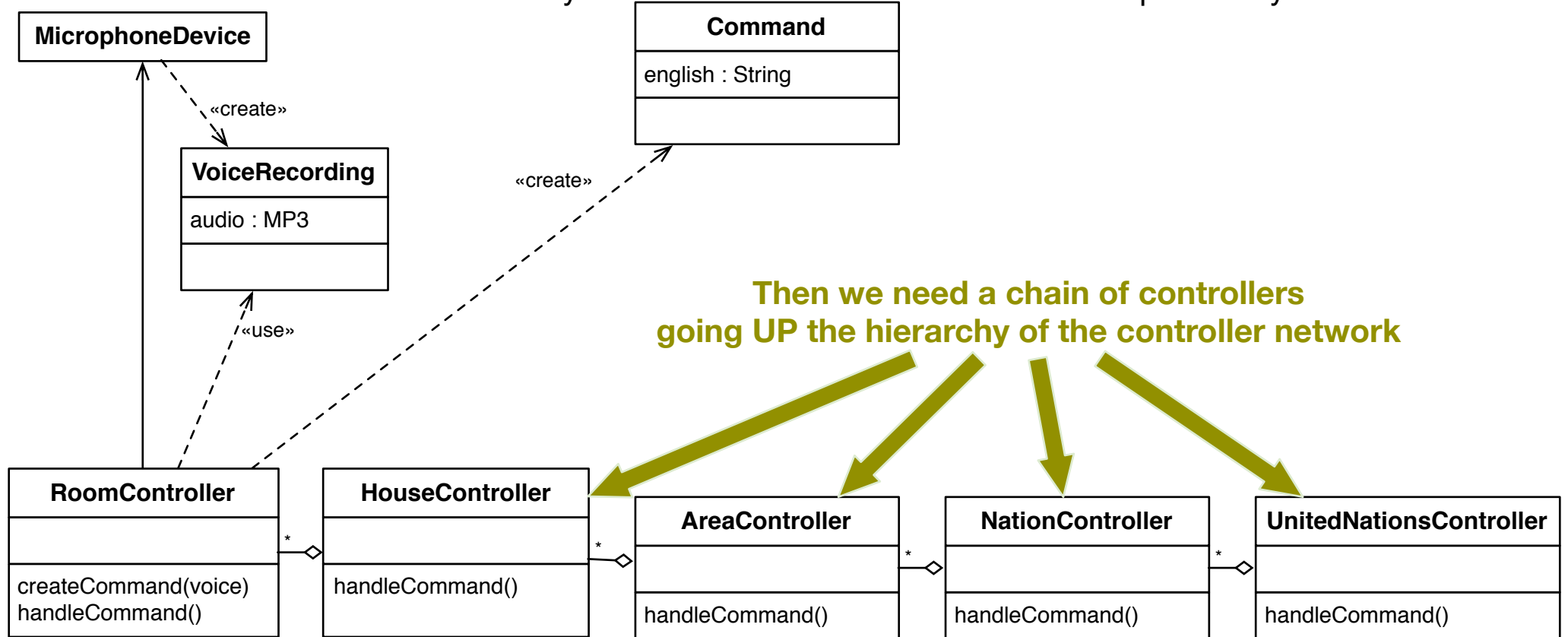
<u>light-4 : Service</u>
switch
on() off()

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

Life Automation System with Command and Chain of Responsibility



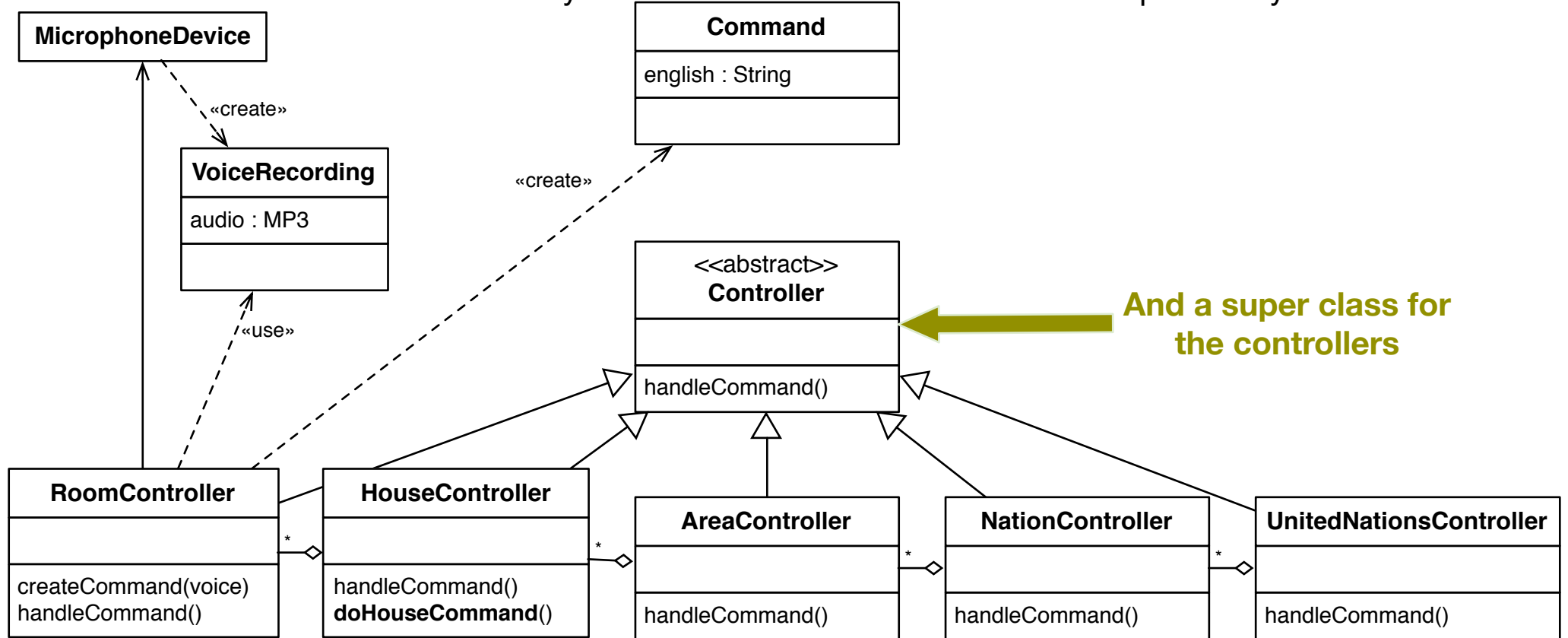
<u>light-4 : Service</u>
switch
on() off()

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

Life Automation System with Command and Chain of Responsibility



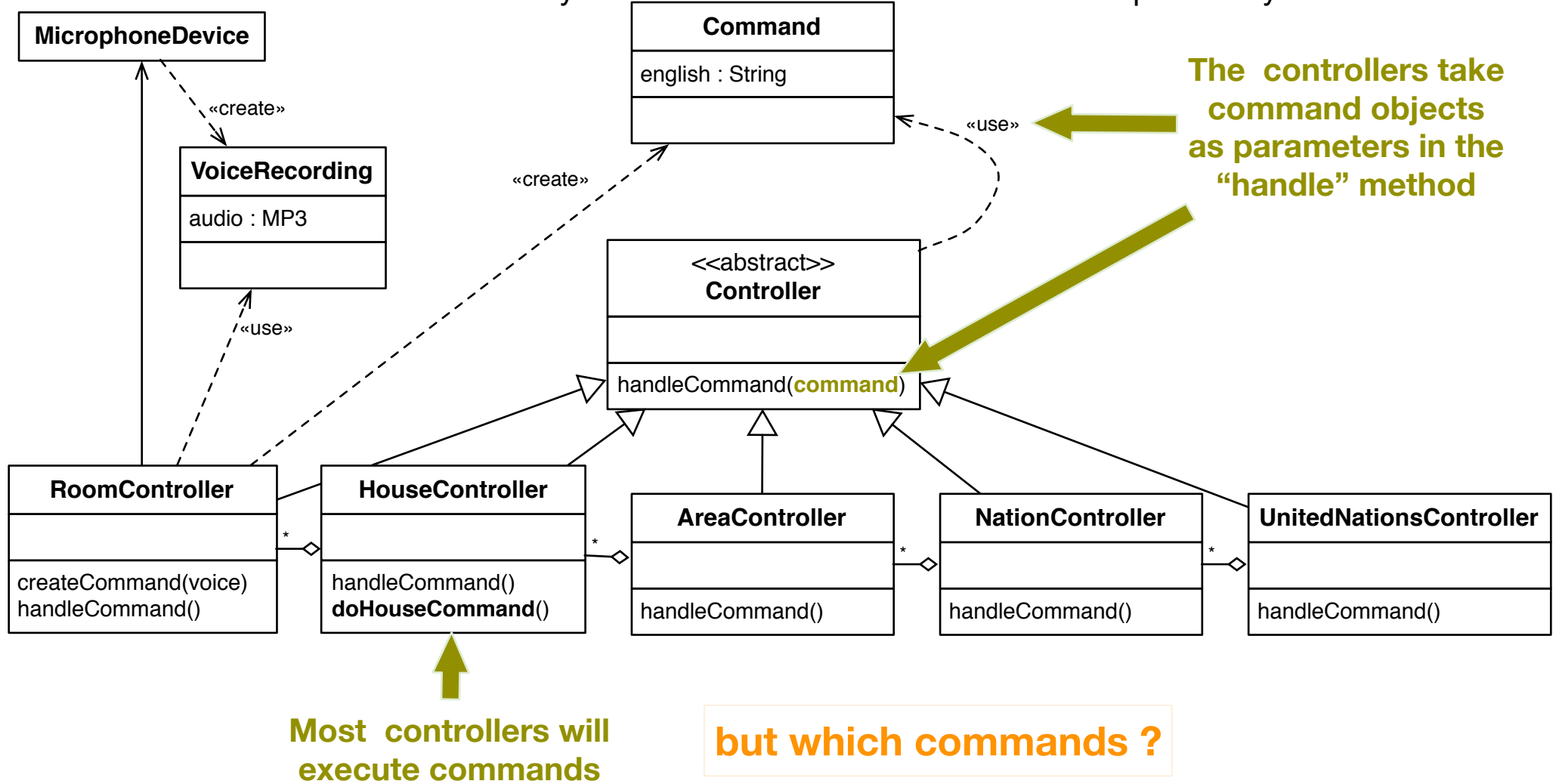
<u>light-4 : Service</u>
switch
on() off()

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

Life Automation System with Command and Chain of Responsibility



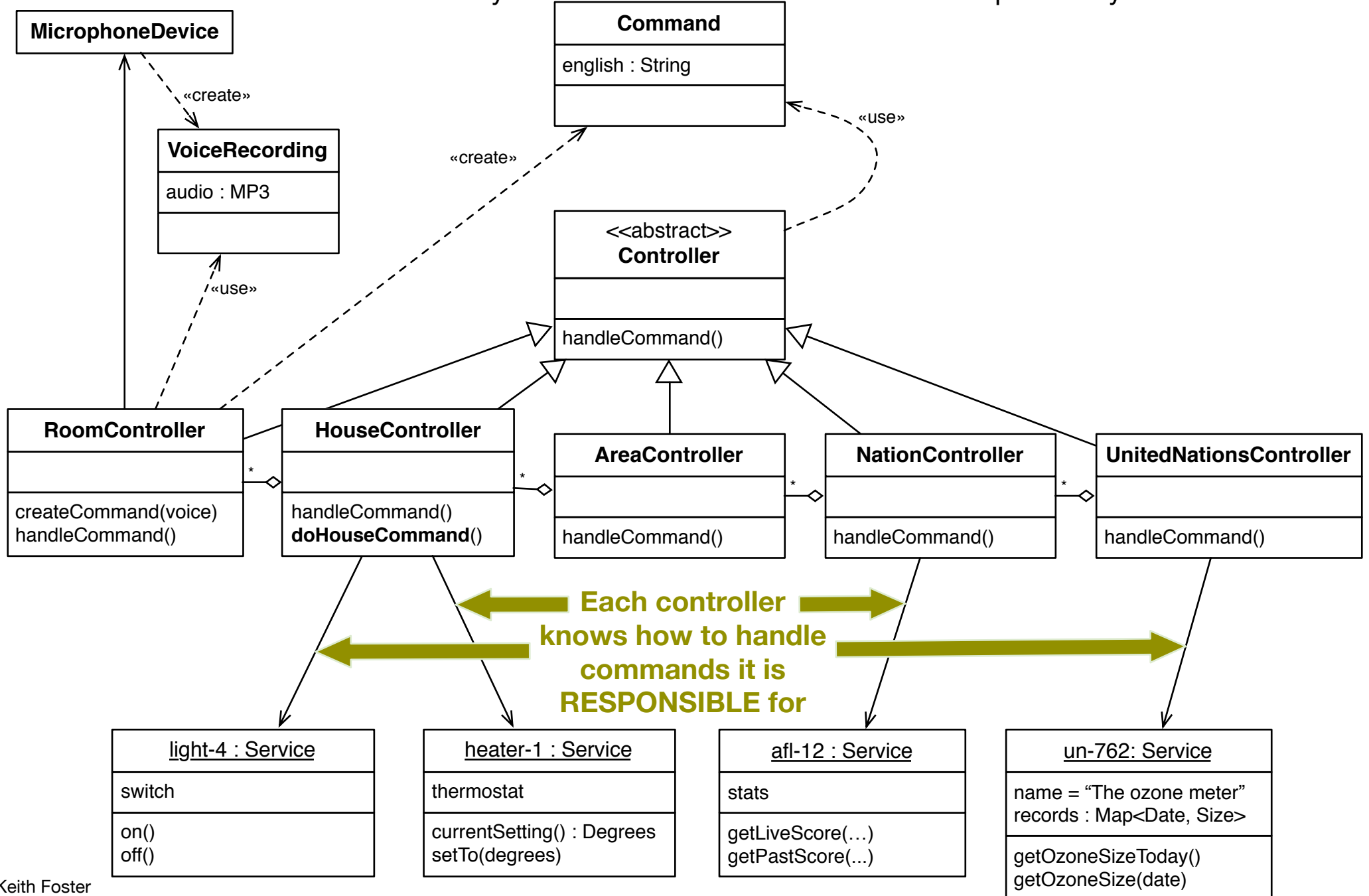
<u>light-4 : Service</u>
switch
on() off()

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

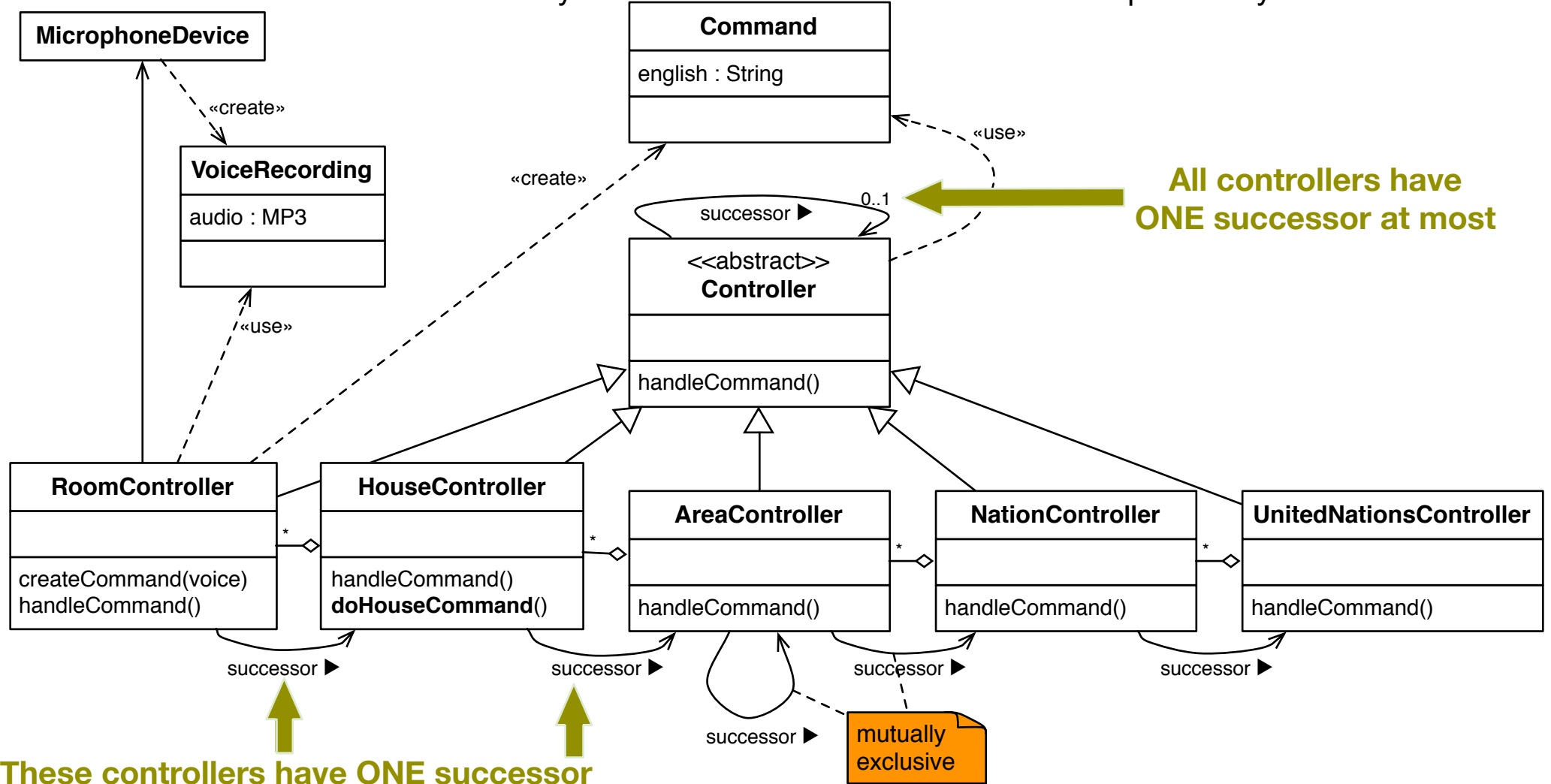
<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

Life Automation System with Command and Chain of Responsibility



Life Automation System with Command and Chain of Responsibility



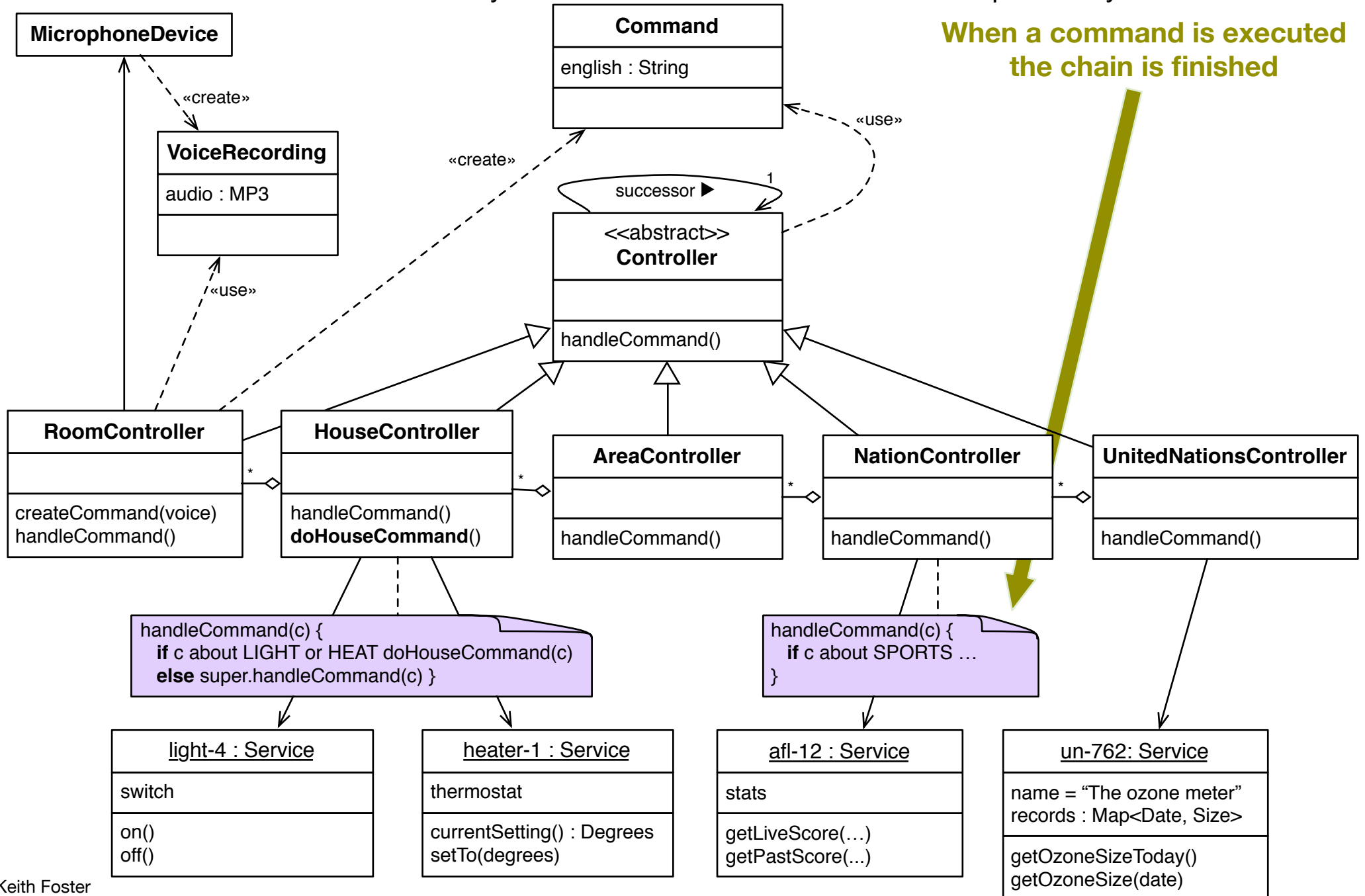
<u>light-4 : Service</u>
switch
on() off()

<u>heater-1 : Service</u>
thermostat
currentSetting() : Degrees setTo(degrees)

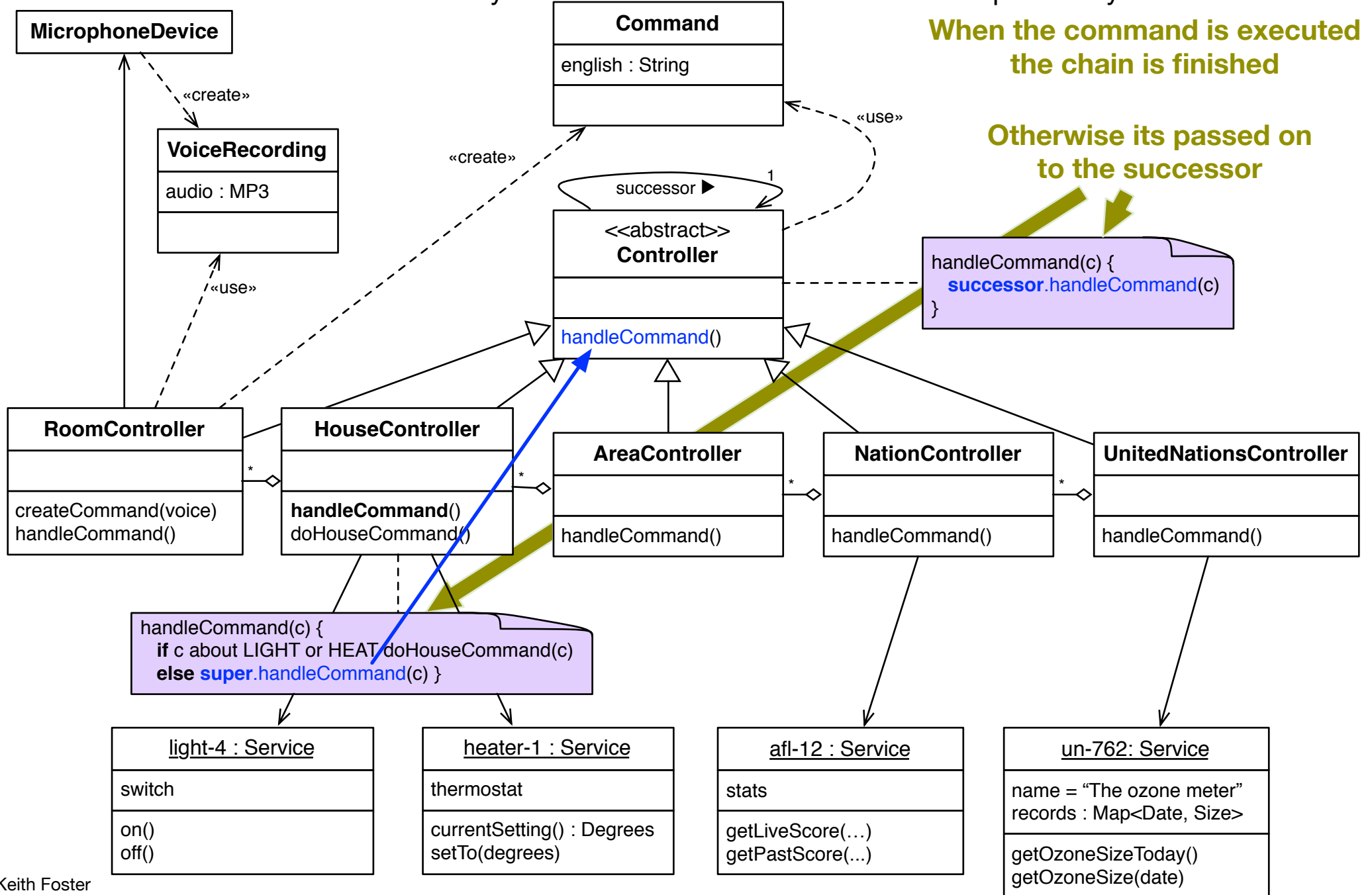
<u>afl-12 : Service</u>
stats
getLiveScore(...) getPastScore(...)

<u>un-762: Service</u>
name = "The ozone meter" records : Map<Date, Size>
getOzoneSizeToday() getOzoneSize(date)

Life Automation System with Command and Chain of Responsibility



Life Automation System with Command and Chain of Responsibility



Life Automation System with Command and Chain of Responsibility

Chain of Responsibility with Command Pattern

