Agents Intelligents

M1 Informatique Paris Descartes

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Roles Model (1/2)

Role Schema	Actuator
Description	Receive the code, decipher it and push the right button to open the door for the « Runner ».
Protocols and Activities	WaitCode, <u>Decipher</u> , <u>PressButton</u> , SendDoorNumber
Permissions	
Responsibilities	 Liveness : Actuator = (WaitCode.(<u>Decipher</u>.<u>PressButton</u>)+.SendDoorNumber)^ω Safety :

Roles Model (2/2)

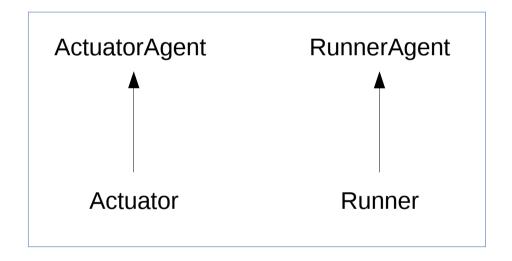
Role Schema	Runner
Description	Find, send the code and pass through the right door once opened by the « Actuator ».
Protocols and Activities	FindCode, SendCode, WaitDoorNumber, OpenDoor
Permissions	
Responsibilities	 Liveness : Runner = (<u>FindCode</u>.SendCode.WaitDoorNumber.<u>OpenDoor</u>)ω Safety :

Interactions Model

SendDoo		
Actuator	Runner	Door's number
Send to the « Runner » the door's number to open.		

Send		
Runner	Actuator	Code to decipher
Send to the « code to d		

Agent Model



Services Model

Service	Inputs	Outputs	Pre-condition	Post-condition
WaitCode		Code		
<u>Decipher</u>	Code	Button's NumberDoor's Number		
<u>PressButton</u>	Button's Number	buttonIsCorrect		
SendDoorNumber	Door's Number		buttonIsCorrect	
<u>FindCode</u>		Code		
SendCode	Code			
WaitDoorNumber		Door's Number		
<u>OpenDoor</u>	Door's Number		buttonIsCorrect	

Acquaintance Model

