

Fire alarm operation											
ID	UC4			ID	UC5		ID	UC6		ID	UC7
Actors	1.Smoke sensors 2.Heat sensors 3.Fire alarm buttons			Actors	Fire brigade		Actors	1.Flashing lights 2.Fire alarm bell		Actors	1.card readers 2.console
Name	Trigger the fire alarm			Name	Fire brigade is summoned automatically		Name	Bells rang and lights flickered		Name	Resetting fire alarm
Description	The fire alarm system is triggered and the system enters UC5 and UC6			Description	The fire brigade is summoned automatically via an automatic calling system when fire alarm are triggered		Description	When the fire alarm is triggered, the fire alarm is sounded and the lights are flashing		Description	Stop the fire alarm and reset the fire alarm system
Pre-conditions	1.The smoke sensors works 2.The heat sensors work 3.Fire alarm buttons works			Pre-conditions	The automatic alarm system works		Pre-conditions	1.The Flashing lights works 2.The fire alarm bell works		Pre-conditions	The card reader is available and the console is available
Event flow	Abnormal circumstances outside can trigger heat sensors, smoke detectors or believe that pressing the fire button causes the fire alarm to be triggered			Event flow	1.fire alarm triggered 2.The fire alarm system alarms automatically		Event flow	1.fire alarm triggered 2.All fire alarm bells are sounded and lights are flashed throughout the building		Event flow	1.A fire disable code has to be input on the system console 2.A valid card presented. 3.The alarm is stopped and a system reset is performed
Post-condition	When the fire alarm is triggered, the system will automatically call the fire brigade and all the fire alarm bells will be sounded, and the lights of the whole building will flash			Post-condition	The fire alarm system alarms automatically		Post-condition	All fire alarm bells are sounded and lights are flashed throughout the building		Post-condition	The alarm is stopped and a system reset is performed
Includes	UC5	UC6		Includes	None		Includes	None		Includes	None
Extensions	None			Extensions	None		Extensions	None		Extensions	None
Triggers	1.If any of the heat sensors detect a temperature great than TC (Temperature Critical) where TC is calibrated by recommendations from the fire brigade. 2.If any of the smoke detectors detect smoke for a time greater than 'Time Critical' (a value also calibrated by recommendations from the fire brigade). 3.If a fire alarm button is pressed		Triggers	Fire alarm are triggered	Triggers	Fire alarm are triggered	Triggers	To stop the fire alarm, a fire disable code has to be input on the system console as well as a valid card presented			