Car Crisis Management
Reference specification in PLUSS

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1 Scenario SC01

1.1 Description:

This scenario allows a crisis analyst (the coordinator) to create a crisis record (here, a car crash record) based on the information obtained from witnesses.

1.2 Related feature

None

1.3 Flow of events

Code	Feature	User Action	System Response
SC01.1	None	Coordinator informs location and type of crisis as reported by the witness.	CMS (Crisis Management System) provides Coordinator with a crisis-focused checklist.
SC01.2	None	Coordinator provides crisis information to CMS as reported by the witness.	CMS assigns an initial emergency level to the crisis and sets the crisis status to active.
SC01.3(A)	Camera Surveillance	Coordinator request visual information from CMS.	CMS requests video feed from Surveillance System.
SC01.3(B)	Camera Surveillance	-	Surveillance System starts sending video feed to CMS.
SC01.3(C)	Camera Surveillance	-	CMS starts displaying video feed for Coordinator.
SC01.4(A)	Registered	-	CMS requests the witness data (name, residence and phone)
SC01.4(B)	Registered	Coordinator fills in the requested data.	CMS contacts Phone Company to verify witness information.
SC01.4(C)	Registered	-	CMS validates information received from the Phone Company. This scenario proceeds only if the witness information is correct.
SC01.4(D)	Registered	-	CMS update the crisis information by providing witness data.
SC01.5	None	-	CMS recommends to Coordinator the missions ($Mission) that are to be executed based on the current information about the crisis and available resources.
SC01.6	None	Coordinator selects one or more missions recommended by the system.	For each selected mission, the CMS assigns internal and external resources so as to properly solve the crisis.

2 Scenario SC02

2.1 Description:

After a previous assignment, this scenario allows an (local site) Observer to
monitor the situation at the crisis site and to notify the CMS any relevant
information related to the crisis.

2.2 Related feature

Observe

2.3 Flow of events

Code	Feature	User Action	System Response
SC02.1	None	Observer notifies the CMS his (her) arrival at the mission location.	CMS sends a crisis-specific checklist to Observer.
SC02.2	None	Observer feeds CMS with additional crisis information.	CMS reports the information to the system's coordinator.
SC02.3(A)	Observe - Request Add. Missions	-	CMS suggests crisis-specific missions to Observer.
SC02.3(B)	Observe - Request Add. Missions	For each mission he (she) wants to create, the observer selects one of the suggested missions.	CMS sends a mission-specific information request to Observer.
SC02.3(C)	Observe - Request Add. Missions	Observer sends mission-specific information to CMS.	CMS acknowledges the mission creation to Observer.
SC02.3(D)	Observe - Request Add. Missions	-	After being notified by each specific mission, CMS informs Observer that all additional missions were completed successfully.
SC02.4	None	Observer judges that his (her) presence is no longer needed at the crisis location and request the CMS to finish the corresponding mission.	CMS finishes the observer mission.
SC02.5	None	-	CMS updates the log file. registering all relevant actions performed for concluding this mission.
SC02.6	None	-	CMS updates the statistics data about crisis handling.

3 Scenario SC03

3.1 Description:

After a previous assignment, this scenario allows the crisis analyst to monitor the process of transporting possible victims of the car crash.

3.2 Related feature

Transport

3.3 Flow of events

Code	Feature	User Action	System Response
SC03.01A	Remote	The External Transport Manager acknowledges the mission assignment to the CMS.	CMS sends detailed information about the crisis location to the Transport Manager.
SC03.01B	Local	The Transporting Leader acknowledges the mission assignment to the CMS.	CMS presents the list of available ambulances to the Transporting Leader. Detailed data of the ambulances (equipment, current location, distance to the car crash site, etc.) have to be presented.
SC03.02A	Remote	-	CMS request transport data (such as estimated time of arrival and helicopter identification) to the Transport Manager.
SC03.02B	Local	The transporting leader selects one o more of the available ambulances.	CMS places a radio voice message to the corresponding ambulance drivers.
SC03.03A	Remote	The External Transport Manager fills in the requested data.	CMS updates the crisis data and notifies the Coordinator.
SC03.03B	Local	-	CMS waits until each ambulance driver informs the estimated time of arrival.
SC03.04	None	-	CMS interacts with the Hospital External System, requesting an appropriate hospital for receiving the victims.
SC03.05	None	-	CMS recommends to the Coordinator the list of suitable hospitals.
SC03.06	None	-	After receiving a notification of the Hospital External System, CMS notifies the Coordinator that the victims had arrived at the hospital.
SC03.07	None	Based on his (her) experience, coordinator selects one of the recommended hospitals.	CMS interacts with the Hospital External System, informing that all possible victims of the accident will be sent to the selected hospital.
SC03.08	None	The coordinator request the CMS to finish the corresponding mission.	CMS finishes the transporting mission.
SC03.09	None	-	CMS updates the log file. registering all relevant actions performed for concluding this mission.
SC03.10	None	-	CMS updates the statistics data about crisis handling.

4 Scenario SC04

4.1 Description:

After a previous assignment, this scenario allows the crisis analyst to monitor the process of first aid procedures.

4.2   Related feature

Rescue

4.3   Flow of events

Code	Feature	User Action	System Response
SC04.1	None	The First Aid Leader acknowledges the mission assignment to the CMS.	CMS presents detailed information (possible number of victims, location, transporting data) about the car crash.
SC04.2	None	-	CMS presents a list of first aid collaborators that are present.
SC04.3	None	The First Aid Leader selects one o more collaborators to send to the car crash location.	CMS sends a beep message to the selected collaborators.
SC04.4	None	-	CMS request transporting for bring the selected collaborators to the car crash location.
SC04.5	None	At the car crash location, the First Aid Leader informs each medical procedure that had been taken at the car crash location.	CMS reports the information to the system coordinator.
SC04.6	None	The First Aid Leader the CMS to finish the corresponding mission.	CMS finishes the rescue mission.
SC04.7	None	-	CMS updates the log file. registering all relevant actions performed for concluding this mission.
SC04.8	None	-	CMS updates the statistics data about crisis handling.