

# How SAFECARE brings reaction plans to the users: TRAS & MAS

## Purpose of each component:

### Threat Response and Alert System



To design and develop a system that automatically process reaction plans and sends notifications and alerts to relevant recipients, improves the coordination between internal and external security practitioners and improves the response and service recovery time

### Mobile Alerting System



To design and develop a system to speed up the communication between the stakeholders and the security infrastructure in case of physical threats, while also enriching the information provided to the user

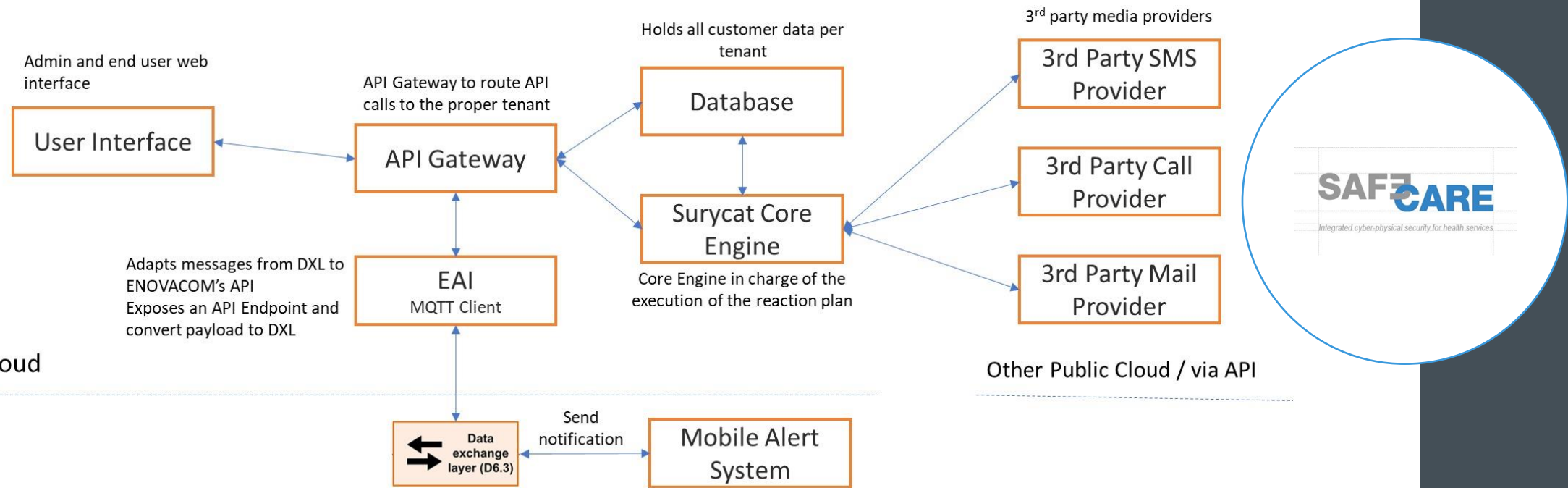


# Threat Response and Alert System (TRAS)

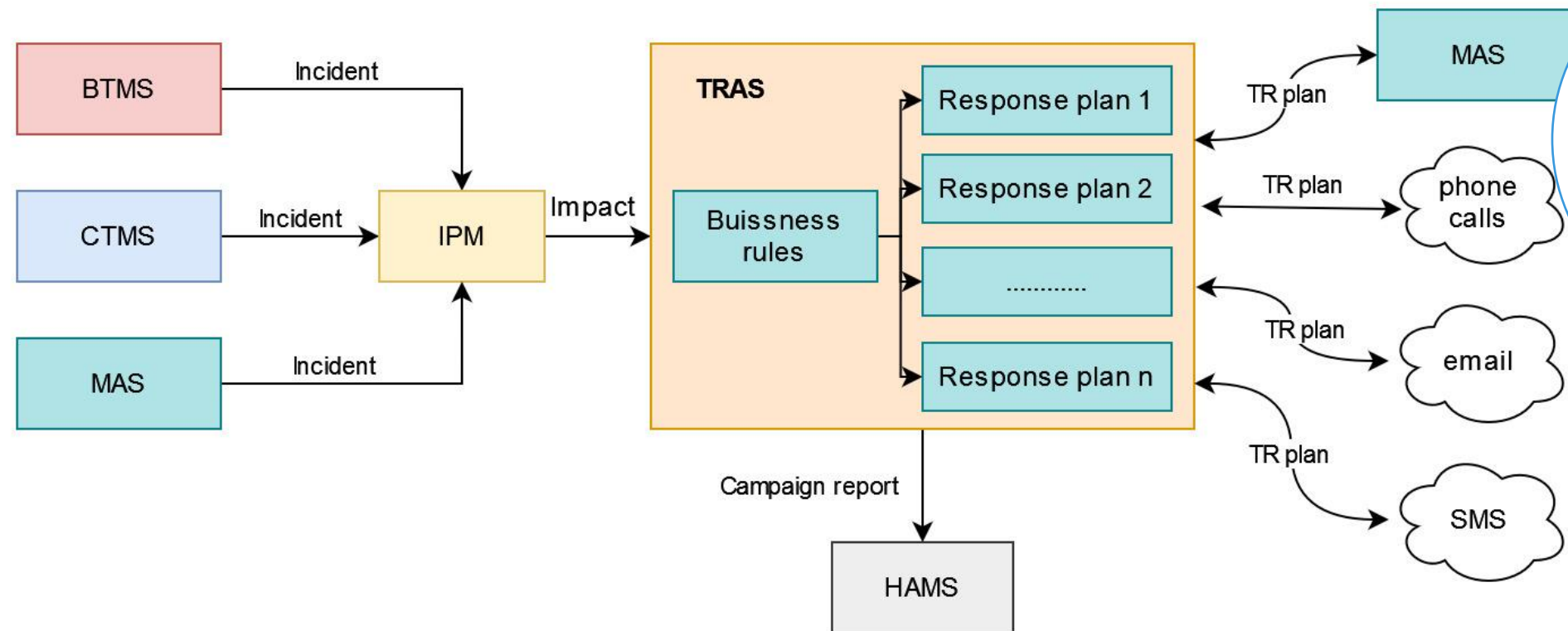
- An automated and integrated communication platform to **provide** end users with **adaptive and efficient notifications and alerts**.
  - Thanks to these notifications the users can act with swiftness and precision based on the risk assessment of the current threat.
- Based on a **rule processing engine** that parses the impacts sent from the Impact Propagation Model module and executes all communication related to the reaction plan relative to the current threat.
  - The rules are created together with the security authorities to target the correct security practitioners (both internal and external) based on each kind of possible threat.
- Integrates current (phone call, SMS) and new (MAS) communication channels through which the threat response messages are sent to the users.



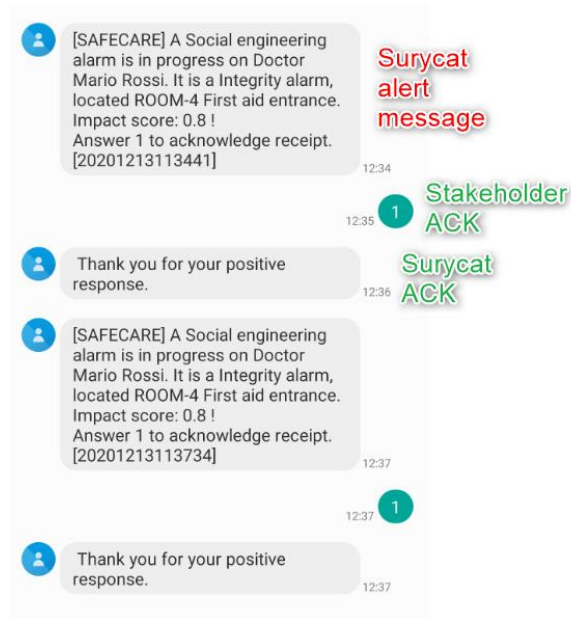
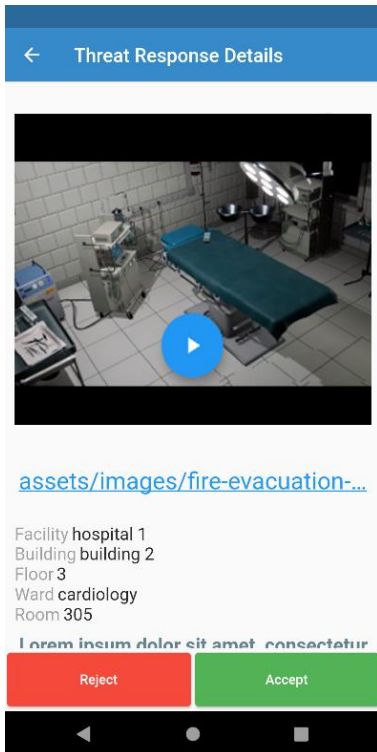
# TRAS: internal architecture



# TRAS: role inside the SAFECARE environment



# TRAS: threat response examples



[SAFECARE] Impact score: 0.8! Social engineering, Integrity, ROOM-4 First aid entrance

S Safecare <safecare@surycat.io>  
A Guillaume Gaudel

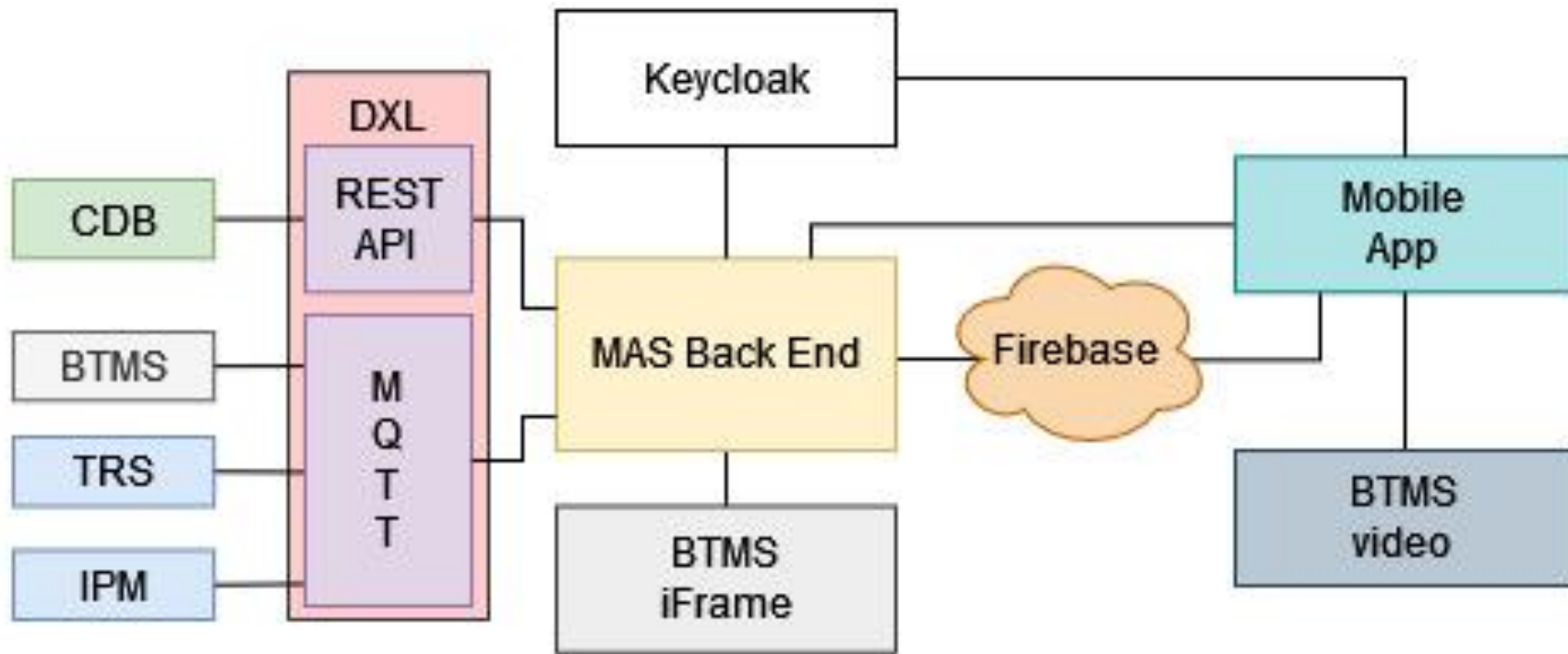
```
A Social engineering alarm is in progress on Doctor Mario Rossi. It is a Integrity alarm, located ROOM-4 First aid entrance. Impact score : 0.8 ! [{"id": "4ELp17p3V25i57f7tBqxx", "name": "Guillaume", "phones": [{"type": "professional", "number": ""}], "created_at": "2020-06-15T14:20:49.921330+00:00", "updated_at": "2020-09-30T12:47:02.267 []", "created_at": "2020-06-15T14:20:49.921330+00:00", "updated_at": "2020-09-30T12:47:02.267929+00:00", "tags": [{"id": "6ldcrNLWMzThLCzjzcCmz9", "name": "[DEMO] Groupe d\u00e9mo", "slug": "demo-groupe-demo", "category": "None"}]}
```

# Mobile Alerting System (MAS)

- Provides an **integrated alerting system** to improve reaction times and enrich the communication between the users and the other modules inside the SAFECARE environment.
- It is divided into two components:
  - A **server** module (MAS back end), running inside the hospital network
  - A **mobile application** (mobile app) running on mobile devices (smartphone and tablet).
    - The mobile application, made for both Android and iOS devices, **displays the information about security events** in the hospital and **sends back the user's feedback** through the MAS back end.



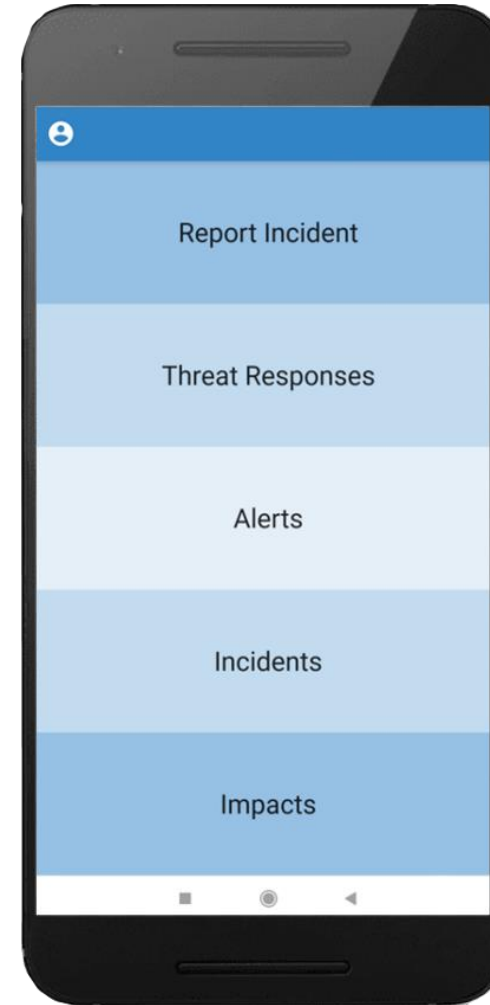
# MAS: structure



# MAS: functionalities

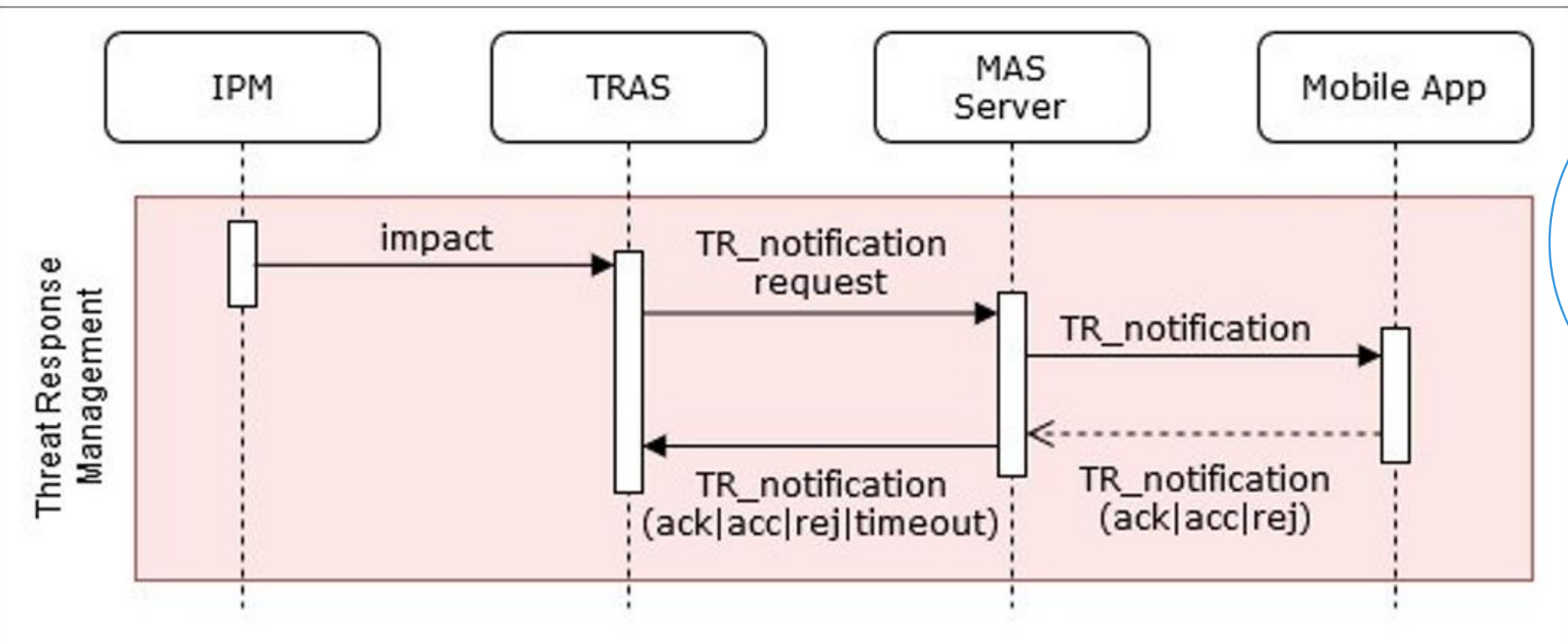
Depending on the role of the user inside the organization the MAS offers different functionalities:

- **Receive Threat Responses** with enriched information (emergency procedures, geolocation, relevant multimedia data) needed to manage the incident.
- **Report specific categories of security threats** or incidents related to a specific failure point in a hospital (e.g. system failure, natural hazard, terrorist attack...),
- Address security incidents discovered by other physical security components (e.g. Video Management System) **implementing a distributed security operations centre.**
- Visualize impacts with detailed asset information.

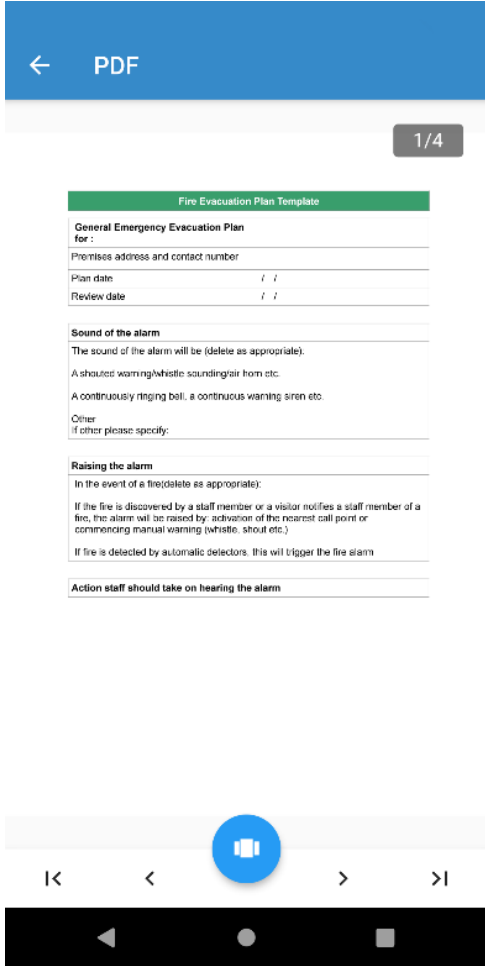
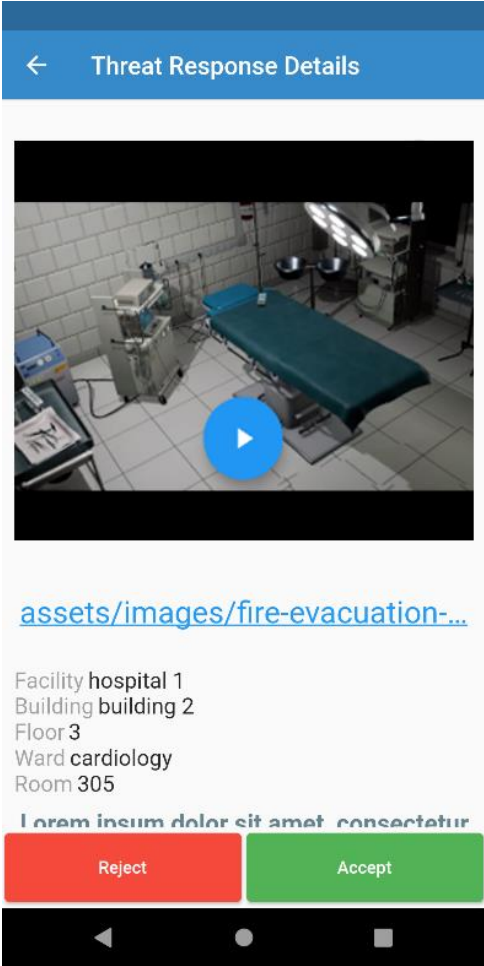
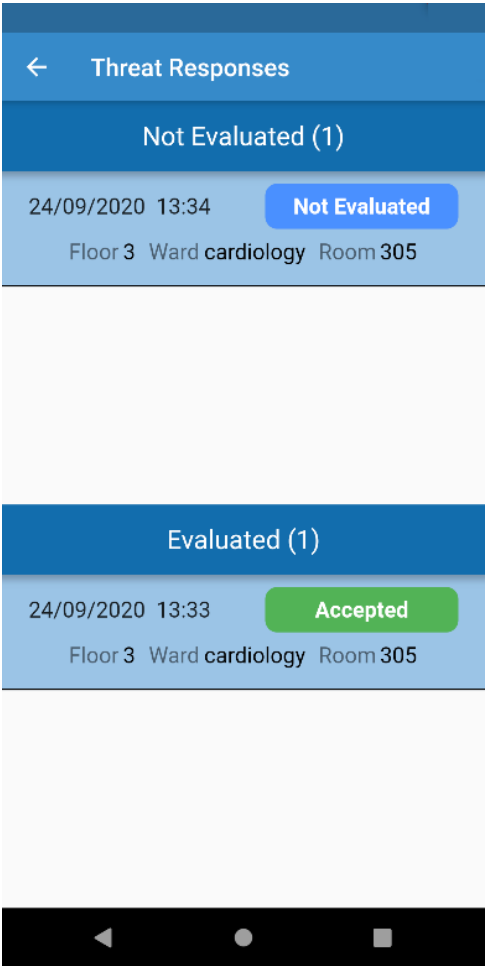




# MAS: Threat Response management



# MAS: Threat Response interface



# MAS: Incident reporting interface

Report Incident

Suspicious Behaviour

Fire

Terrorist Attack

Natural Hazard

Other Event

fire

1 Hazard Type

Select Hazard Type

Continue Cancel

2 Location

3 Severity

4 Description

fire

1 Hazard Type

2 Location

Batiment Timone 2

Bloc operatoire

Continue Cancel

3 Severity

4 Description

fire

1 Hazard Type

2 Location

3 Severity

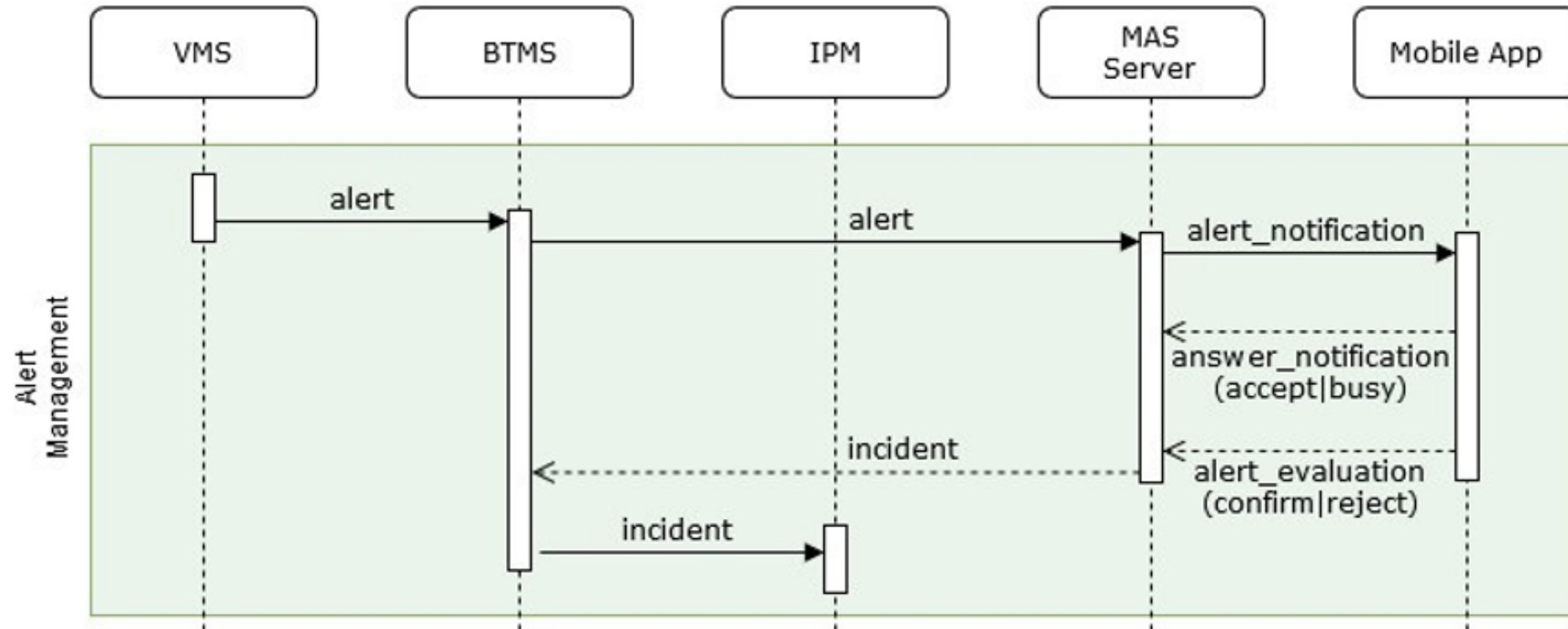
Significant

Continue Cancel

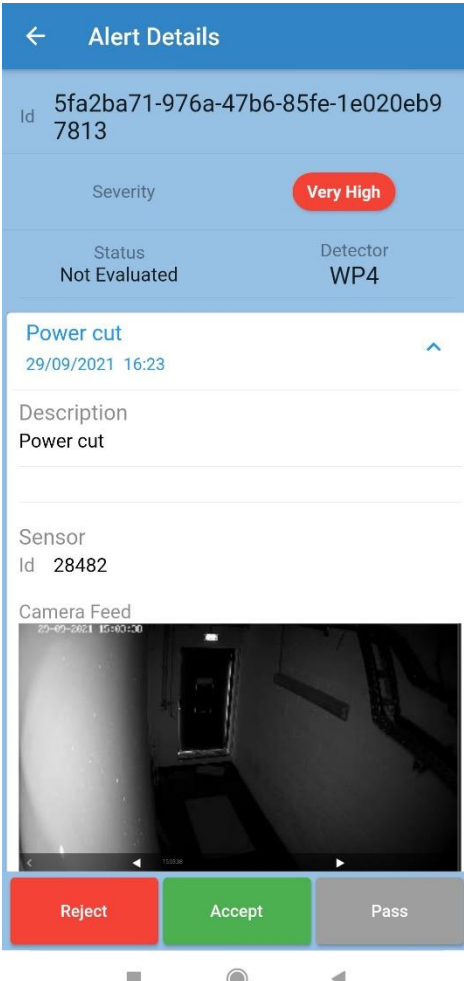
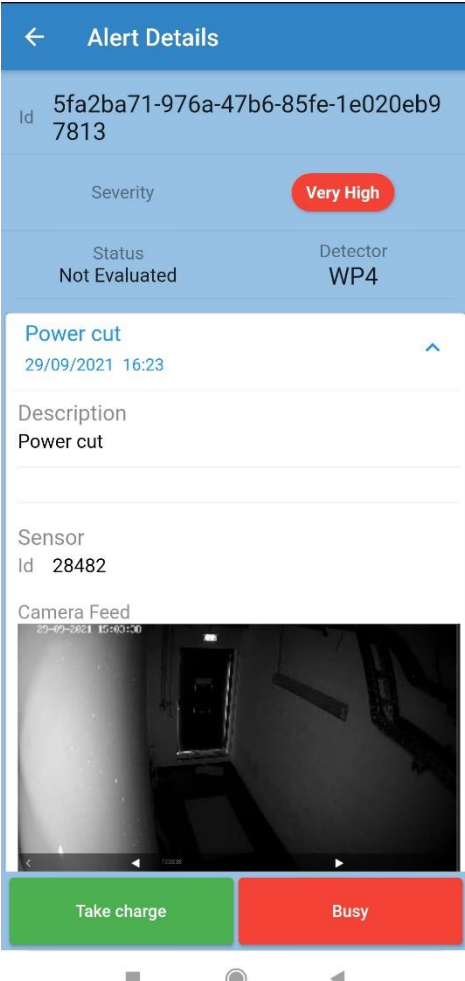
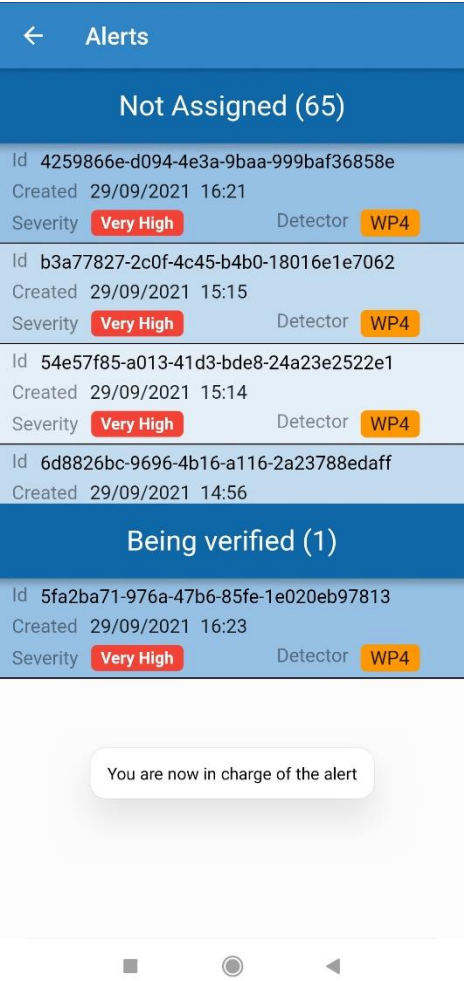
4 Description



# MAS: Alert management



# MAS: Alert interface



# MAS: Impact interface

← Impacts	
Id	6f2857da-4849-4d78-9483-541320c23183
Created	30/09/2021 15:58
Impacted Assets	3
Id	b5ae4810-69e2-4108-ab07-d7262fd9dd3a
Created	30/09/2021 15:58
Impacted Assets	9
Id	a7ce19af-d0af-4412-ad19-dd939f8143c9
Created	30/09/2021 15:58
Impacted Assets	20
Id	1043e09a-7ddd-489d-8200-d378d1492774
Created	30/09/2021 15:13
Impacted Assets	3
Id	327a7a14-b806-4714-86af-45d18af65eb4
Created	29/09/2021 16:26
Impacted Assets	4
Id	01720030-b163-4c49-9d4c-0147eb859bcf
Created	29/09/2021 16:22
Impacted Assets	5
Id	18434885-0917-44e1-8f58-7f53395cd7fc
Created	29/09/2021 16:03
Impacted Assets	4
Id	b77c9829-e5f7-4d8e-b1d0-2f368a232eca
Created	29/09/2021 16:00
Impacted Assets	26
Id	dfbfb7bf-8f63-428d-91e9-13810ad789b6

← Impact Details	
Created	30/09/2021 15:58
Impact Id	6f2857da-4849-4d78-9483-541320c23183
Incident Id	778744ce-0886-4998-80c3-2fb79d88ec36 Tap to see
Impacted Assets (3)	
0.9 suspicious interaction	NETWORKING EQUIPMENT
0.9 suspicious interaction	NETWORKING EQUIPMENT
Asset Id	28432
Location	room Local electricque
1.0 Covered camera screen	IDENTIFICATION AND SECURITY SYSTEMS AND DEVICES



# Thank you !

More details available on:

- Our website: <https://www.safecare-project.eu/>
  - Twitter: @SafecareP
  - LinkedIn: SAFECARE Project

Francesco Lubrano

francesco.lubrano@linksfoundation.com

Michele Petruzza

michele.petruzza@linksfoundation.com

