FIGUEIREDO Christophe DUARTE TOME Stevie THIELEN Daniel

Issuing GrouPSeveN

Forest Fire(v0.1)

Messip User Manual - v 1.0.3 -

Based on IEEE Std 1063-2001 [1]

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Chapter 1 Product information

1.1 Identification

The FORESTFIRE Smartphone Application should work on !!!!every!!! smartphone. The GPS must be enabled inorder to make a accurate mark on the map.

The FORESTFIRE WebApplication needs at least Firefox 16.0, Google Chrome 5.0.375 and Internet Explorer 10 to work correctly. Javascript should also be enabled.

1.2 Copyright

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1.3 Trademark notices

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- In case of any modification to the software made by any party other than GrouPSeveN all the warranties drop.

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GrouPSeveN futher represents and warrants that, the executable object code of software and the system will perform substantially in accordance with the System Specification and Agreement.

1.6 Contractual obligations

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

6 1 Product information

1.7 Disclaimers

This documentation is under active development and as such there may be mistakes and omissions. Please report any errors you find to the developers mailing address: groupseven@g7.com.

1.8 Contact

Information for contacting the issuing organization. Please address all communication concerning FORESTFIRE and this manual to:

E-mail: groupseven@g7.com

 $\mathrm{Tel}:585858$

Website: www.beto.lu

Chapter 2 Introduction

2.1 Scope

This document provides information about how to operate the $Forest\ Fire(v0.1)$. This document also provides information about error messages and problems and how you can fix them.

This document is not intended as a guide to deploy, connect or even configure the $Forest\ Fire(v0.1)$ system and how to manage it.

This document may be used with additional information from out website www.beto.lu

2.2 Purpose

The purpose of this document is to make the life of the System Manager easier and to give him a feeling about how $Forest\ Fire(v0.1)$ works.

2.3 Intended audience

Description of the categories of persons targeted by this document together with the description of how they are expected to exploit the content of the document.

2.4 Forest Fire(v0.1)

The purpose of $Forest\ Fire(v0.1)$ is to improve both safety and reaction time to combat against forest fires.

2.4.1 Actors & Functionalities

Here quick overview of the users of the System and their functionalities.

2.4.1.1 Admin

The Admin manages the system. She/He can create new Users, edit existing users as well as deleting them. Of course the Admin can loginto the website.

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2.4.1.2 Employee

The Employee is a person who manages with the Fire Departement Officer the alerts. She/He can loginto the website. She/He can also send information to the News as well as sending some Maintenance Team to a defect Device.

2.4.1.3 Witness

The Witness is a person who witnesses a fire and sends an alert to the system via the App.

2.4.1.4 Fire Departement Officer

The Fire Departement Officer has the command off his Fire Departement. She/He can loginto the website and manage the alerts with the Employees.

2.4.1.5 News

The News is a user who can loginto the website and can publish news about the recent confirmed fire alerts.

2.4.1.6 Sensor

The Sensor is a device which can send anomaly to the system which could indicate a forest fire. The System can also force an sensor update if a Witness reported a fire in the area.

2.4.1.7 Drone

The drone is a device which the Fire Departement Officer and the Employees can use to idenify a fire. The drone gets its mission if there is an alert.

2.4.1.8 Maintenance

The Maintenance is a person whos job is to maintenance devices. She/He can loginto the website. If there is a defect device the Maintenance is concerned about this problem. She/He can indicate a status like queued, working or finished.

2.4.2 Police

Police is the person whos job is to handle the evacuation. !!!!!

2.4.3 Operating environment

Brief overview of the infrastructure on which the software is deployed and used.

2.5 Document structure 9

2.5 Document structure

Information on how this document is organised and it is expected to be used. Recommendations on which members of the audience should consult which sections of the document, and explanations about the used notation (i.e. description of formats and conventions) must also be provided.

!!!!!

Chapter 3 Usage Guide

In this section you can find the procedures which the system is using.

Remark: Graphical User Interfaces (GUIs): include GUIs screenshots to show the different stages of the process while its is performed by the actor.

3.1 Actors common procedures

Here you can find procedures which are commen to some actors.

3.1.1 Login Procedure

Use Case: LoginProcedure Scope: System (System) Primary Actor: User Secondary Actor:

Intention: The intention of the User is to log into the website.

Level: Sub-functional level Main Success Scenario:

- 1. User sents his login information to the system.
 - 2. System validates information.
 - 3. System grands access.

Extensions:

3. System denys access.

3.1.2 Alert Send (App)

Use Case: AlertSend(App) Scope: System (System) Primary Actor: Witness Secondary Actor: Telecom

Intention: The intention of the Wittness is to send a alert to the system.

Level: Sub-functional level Main Success Scenario:

- 1. Witness sents fire location to the System an his phone number to the Telecom.
- 2. Telecom verifies recieved number and sends the number also to the System.

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- 3. System sends confirmation to the Witness.
- 4. System proceeds with procedure <Validate Alert>.

Extensions:

- 1. Witness calls the Telecom.
- 2. Telecom locates Witness and sends information to the System.

3.2 Storage

3.2.1 Achivement

Use Case: Achivement Scope: System (System) Primary Actor: Storage Secondary Actor:

Intention: The intention of the Storage is to achiv old data (Alerts, etc) each few days.

Level: Sub-functional level Main Success Scenario:

- 1. System sends old data to Storage.
- 2. Storage stores data.
- 2. Storage sends status code to System(ie. success, failed).

Extensions:

3.3 Sensor procedures

3.3.1 Sensor Alert

Use Case: SensorAlert Scope: System (System) Primary Actor: Sensor Secondary Actor:

Intention: The intention of the Sensor is to send an anomaly to the system.

Level: Sub-functional level Main Success Scenario:

- 1. Sensor sents anomaly to System.
- 2. System proceeds with the procedure <Validate Alert>.

Extensions:

3.3.2 Send current status

Use Case: SendCurrentStatus Scope: System (System) Primary Actor: Sensor Secondary Actor:

Intention: The intention of the sensor is to send a staus report in a time-interval to the system.

Level: Sub-functional level

Main Success Scenario:

- 1. Sensor performs a status check on itself.
- 2. Sensor sends status report to the System.
- $3.\ System$ evaluates status report.

Extensions:

3.3.3 Send Sensor Information

Use Case: sendSensorInformation

Scope: System (System)
Primary Actor: Sensor
Secondary Actor:

Intention: The intention of the sensor is to send a requested information to the system.

Level: Sub-functional level Main Success Scenario:

- 1. System requests an update from Sensor.
- $2.\ Sensor$ sends information to System.
- $3.\ System$ validates infomation.

Extensions:

3.4 Admin procedures

3.4.1 Administrative

Use Case: Administrative Scope: System (System) Primary Actor: Admin Secondary Actor: User

 $\textbf{Intention:} \ \ \textbf{The intention of the Admin is to create/edit/delete a User}.$

Level: Sub-functional level Main Success Scenario:

- 1. Admin creates/edits/deletes a user using the website.
- 2. System validates entered information.
- 3. Admin recieves status (ie. created, user exits, etc).
- 4. User recieves a Email.

Extensions:

3.5 Fire Departement Officer

3.5.1 Fault Alarm

Use Case: FaultAlarm Scope: System (System)

Primary Actor: Fire Departement Officer Secondary Actor: Drones, Employee

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Intention: The intention of the Fire Departement Officer is to handle a fault alarm.

Level: Sub-functional level Main Success Scenario:

- 1. Fire Departement Officer sends a "Return to Base" command to the Drones.
- 2. Fire Departement Officer recieves confirmation form the Drones.
- 3. System sends "relief-mail" to the Employee.

Extensions:

3.5.2 Validate Alert

Use Case: ValidateAlert Scope: System (System)

Primary Actor: Fire Departement Officer **Secondary Actor**: Drones, Sensor, Employee

Intention: The intention of the Fire Departement Officer is to validate recieved alert.

Level: Sub-functional level Main Success Scenario:

- 1. System requests information of the sensor which is the nearest to the fire location.
- 2. System recieves information from the Sensor.
- 3. System dispatches Drones.
- 4. System notifies Fire Departement Officer and Employee.
- 5. Fire Department Officer proceed with the procedure <IsFire>.

Extensions:

5. Fire Department Officer proceed with the procedure <NoFire>.

3.5.3 End Alert

Use Case: endAlert Scope: System (System)

Primary Actor: Fire Departement Officer

Secondary Actor: Employee

Intention: The intention of the Fire Departement Officer declare the alert as ended.

Level: Sub-functional level Main Success Scenario:

- 1. Fire Departement Officer indicates that the alert is finished 2. System confirms that the alert is finished.
- 3. System sends a "finished alert" message to Employee.

Extensions:

3.6 Major

3.6.1 Evacuation order

Use Case: endAlert Scope: System (System) Primary Actor: Major

Secondary Actor: Police, Fire Departement Officer

Intention: The intention of the Major is to declare an evacuation of the area.

3.7 Employee 15

Level: Sub-functional level Main Success Scenario:

- 1. Major sends evacuation order to the Police. 2. Police proceed with <Handel Evacuation Order>.
- $3.\ Major$ sends a message to Fire Departement Officer.
- 4. Fire Departement Officer confirms message.

Extensions:

3.6.2 Declare Safezone

Use Case: delareSafezone Scope: System (System) Primary Actor: Major Secondary Actor: Police

Intention: The intention of the Major is to declare a safezone.

Level: Sub-functional level Main Success Scenario:

- $1.\ \mathit{Major}$ sends information where the Safezone should be established to the Police.
- 2. Police proceed with <Handel Safezone Order>.

Extensions:

3.7 Employee

3.7.1 Send Info to News

Use Case: SendInfoToNews Scope: System (System) Primary Actor: Employee Secondary Actor: News

Intention: The intention of the Employee is to inform the News about the fire.

Level: Sub-functional level Main Success Scenario:

- 1. Employee sends a confirmation to the system to inform the News.
- $2.\ System$ sends the fire informations to News.
- 3. Employee recieves confirmation from the System.

 ${\bf Extensions}$:

3.7.2 Handle defect equipment

Use Case: HandleDefectEquipement

Scope: System (System)
Primary Actor: Employee
Secondary Actor: Maintenance

Intention: The intention of the Employee is to get the equipement repaired.

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Level: Sub-functional level Main Success Scenario:

- 1. Employee recieves defect device information from System
- 2. Employee sends confirmation to System.
- $3.\ Employee$ sends information of defect equipement to Maintenance.
- 4. Maintenance confirms. 5. Maintenance proceeds with <Handle Sensor Error>.

Extensions:

4. Maintenance proceeds with <Handle Drone Error>.

3.7.3 Request Information from Sensor

Use Case: requestInfoSensor Scope: System (System) Primary Actor: Employee

Secondary Actor:

Intention: The intention of the Employee is to request information form a Sensor.

Level: Sub-functional level Main Success Scenario:

- Employee requests information from a Sensor
 Sensor performs < Send Sensor Information>.
- 2. Sensor performs < Send Sensor Informati

Extensions:

3.8 Maintenance

3.8.1 Handle Drone Error

Use Case: handleDroneError Scope: System (System) Primary Actor: Maintenance Secondary Actor: Employee

Intention: The intention of the Maintenance is to repair the defect Drone.

Level: Sub-functional level Main Success Scenario:

- Maintenance gets to Drone.
 Maintenance repairs Drone.
- 3. Maintenance sends status report to Employee.

Extensions:

3.8.2 Handle Sensor Error

Use Case: handleSensorError Scope: System (System) Primary Actor: Maintenance Secondary Actor: Employee

Intention: The intention of the Maintenance is to repair the defect Sensor.

Level: Sub-functional level

3.10 Drone 17

Main Success Scenario:

- 1. Maintenance gets to Sensor.
- 2. Maintenance repairs Sensor.
- $3.\ Maintenance\ {\rm sends}\ {\rm status}\ {\rm report}\ {\rm to}\ {\rm Employee}.$

Extensions:

3.9 Fire Departement and Employee procedures

3.9.1 Is Fire

Use Case: IsFire Scope: System (System)

Primary Actor: Fire Departement and Employee

Secondary Actor:

Intention: The intention the Fire Departement and Employee is to confirm that there is a fire.

Level: Sub-functional level Main Success Scenario:

1. Fire Departement and Employee confirm that there is a fire.

2. Fire Departement and Employee recieve an confirmation of the System.

3. Fire Departement takes action.

Extensions:

3.9.2 No Fire

Use Case: NoFire Scope: System (System)

Primary Actor: Fire Departement and Employee

Secondary Actor:

Intention: The intention the Fire Departement and Employee is to confirm that there is NO fire.

Level: Sub-functional level Main Success Scenario:

- 1. Fire Departement and Employee indicate that the alert was faulty.
- 2. Fire Departement and Employee recieve an confirmation of the System.
- 3. System proceeds with the procedure <Fault Alert>.

Extensions :

3.10 Drone

3.10.1 Send Current Status

Use Case: sendCurrentStatus Scope: System (System) Primary Actor: Drone Secondary Actor:

Intention: The intention is that the Drone wants to send it's status report in a time interval to the system.

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Level: Sub-functional level Main Success Scenario:

- 1. Drone runs a status check of itself.
- 2. Drone sends it's status report to the System.
- 3. System evaluates the drone's status report.

Extensions:

3.10.2 Send Location

Use Case: sendLocation Scope: System (System) Primary Actor: Drone Secondary Actor:

Intention: The intention is that the Drone wants to send it's location in a time-interval to the System

Level: Sub-functional level
Main Success Scenario:
1. Drone gets it's location.

- 2. Drone sends it's loction to the system.
- 3. System evaluates the information.

Extensions:

3.10.3 Routine Flight

Use Case: routineFlight Scope: System (System) Primary Actor: Drone Secondary Actor:

Intention: The intention is that the Drone wants to execute a everyday at a specific time a routine flight.

Level: Sub-functional level Main Success Scenario:

- 1. Drone sends a notification of departure to the system and to the Fire Station Officer.
- 2. Drone takes of and flies the configured track.
- 3. Drone activates it's cameras.
- 4. Drone returns to base.

Extensions:

3.10.4 Misson Flight

Use Case: missionFight Scope: System (System) Primary Actor: Drone Secondary Actor:

Intention: The intention is that the drone needs to perform a misson flight.

Level: Sub-functional level Main Success Scenario:

- $1.\ Drone\ {\bf recieves\ misson\ information}$
- 2. Drone send confirmation to system and to the Fire Station Officer.

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- 3. Drone flies to recieved location.
- $4.\ Drone\ {\it activates}\ camera.$
- 5. Drone cycles around the location.
- $6.\ Drone$ recieves Return to Base message.
- 7. Drone returns to base.

Extensions:

3.11 Police

3.11.1 Handle Evacuation Order

Use Case: handleEvacationOrder

Scope: System (System)
Primary Actor: Police
Secondary Actor:

Intention: The intention is that Police needs to handle a Evacuation Order.

Level: Sub-functional level Main Success Scenario:

- 1. Police recieves evacuation order and information.
- 2. Police does his job to evacuate the location.
- 3. Police informs the system that he evacuation is done.

Extensions:

3.11.2 Handle Safe Zone

Use Case: handleSafeZone Scope: System (System) Primary Actor: Police Secondary Actor:

Intention: The intention is that Police needs to secure the area of operation.

Level: Sub-functional level Main Success Scenario:

- 1. Police recieves misson information.
- 2. Police notifies the System that he's on a mission.
- 3. Police does his job to secure the area of operation.
- 4. Police informs system.

Extensions:

3.12 Media

3.12.1 Make News

Use Case: makeNews Scope: System (System) Primary Actor: Media 20 3 Usage Guide

Secondary Actor: Employee

Intention: The intention is Media creates news for the website.

Level: Sub-functional level Main Success Scenario:

- 1. Media recieves fire information from the Employee.
- 2. Media sends confirmation to the Employee.
- $3.\ Media$ creates the news based upon the fire information.
- $4.\ Media$ send News to the System.
- 5. Employee accepts the news.

Extensions:

3.12.2 Use news

Use Case: useNews
Scope: System (System)
Primary Actor: Media
Secondary Actor: Employee

Intention: The intention is that Media wants to use the fire information for it's own.

Level: Sub-functional level Main Success Scenario:

1. Media recieves fire information from the Employee.

2. Media uses the information to warn people in their field (Radio, TV, etc.

 ${\bf Extensions} \ :$

Chapter 4 Software operations

Here you can find allowed software operations and examples on how you can use them.

4.1 Log into Website

A User of the system wants to login to the website

Parameters: username, password

Precondition: The User is not logged in.
Post-condition: The User is logged in.
Output messages: Welcome <username>.

Triggering:

- 1. The User presses the <Login> link in order to get redirected to the login page.
- 2. The User enters his username into the field <Username> and his password into the field <Password>.
- 3. The User presses the button <Login>.

4.2 Logout from the Website

A User from the system wants to logout from the website.

Parameters:

Precondition: The User is logged into the website.

Post-condition: The User is logged out from the website.

Output messages: Logged out...until next time.

Triggering:

1. The user presses the link <Logout>.

4.3 Create User

The admin creates a new user to the system.

Parameters: firstName, lastName, username, password, email

Precondition: The admin is logged into the website.

Post-condition: A new user has been created on system.

Output messages: User <username> has been created.

Triggering:

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1. From within user management page on the website fill out the required user information related to the new user like username, status,...

2. Click on the Submit button to add the new user to the database.

4.4 Delete User

The admin deletes an existing user from the system.

Parameters: username

Precondition: The admin is logged into the website.

Post-condition: A user has been deleted from the system.

Output messages: User <username> has been deleted.

Triggering:

1. From within the usermanagement page on the website select the user related to the user information to delete him.

2. Click on the Delete button to remove the user from the database.

4.5 Edit User

The admin edits an existing user on the system.

Parameters: username

Precondition: The admin is logged into website.

Post-condition: A user has been edited on the system.

Output messages: User <username> has been edited.

Triggering:

- 1. From within the usermanagement page on the website select the user related to the user information to update him.
- 2. Using the user information fill out the form.
- 3. Click on the "Update User" button to update the user on the database.

4.6 Edit User

The admin edits an existing user on the system.

Parameters: username

Precondition: The admin is logged into the website.

Post-condition: A user has been edited on the system.

Output messages: User <username> has been edited.

Triggering:

- 1. From within the usermanagement page on the website select the user related to the user information to update him.
- 2. Using the user information fill out the form.
- 3. Click on the "Update User" button to update the user on the database.

4.7 Alert Send

A witness wants to send a firealert using the app.

4.8 View all alerts

Parameters: coordinates, phonenumber Precondition: Alert not yet sended

Post-condition: The alert has been sended

Output messages: Alert recieved.

Triggering:

- 1. The witness calls up the <FireAlert> application.
- 2. The witness selects the button !!!!!send message!!! or the button <Call>.

3. The witness select the <send location> button or she/he passes the information through the Telecom operator.

4.8 View all alerts

A ???user??? wants to see all the alerts on the website.

Parameters:

Precondition: User is logged into the website. Post-condition: User is logged into the website.

Output messages:

Triggering:

1. The user presses the link <Alerts>. ?????

Chapter 5

Error messages and problem resolutions

Here is a short list which problems the customer might encounter during the use of the application. A solution to most of the problems is also there.

5.1 Error message 1

5.1.1 Problem identification

Screen form the WebApplication shows error code: 404 page not found

5.1.2 Probable cause

- It could be that the error is your mistake because you typed the URL incorrectly.
- Another possibility is that the website has been moved and there is no redirect from the old URL to the new URL.

5.1.3 Corrective actions

- Please check and correct the URL.
- Please conntact administrator in order to get the new URL.

5.2 Error message 2

5.2.1 Problem identification

Cannot login: user does not exist.

5.2.2 Probable cause

- The username you entered is yet not registed.
- You may have made a mistake in your username.

5.2.3 Corrective actions

- Please first register inorder to login to the page.
- Please check your username for any errors and correct them and try again.

5.3 Error message 3

5.3.1 Problem identification

The Website shows the error: Please activate Javascript.

5.3.2 Probable cause

• The WebApplication uses JavaScript, you may have JavaScript disabled or you have a addon which disables it.

5.3.3 Corrective actions

Please enable Javascript:

Google Chrome

- Chrome menu icon on the browser toolbar.
- Settings.
- Show advanced settings.
- In "Privacy" section, click Content settings.
- In "JavaScript" section, select allow all sites to run JavaScript.
- Done.

Internet Explorer

- Click Tools on the web browser menu.
- Internet options.
- Security tab.
- Custom level.
- Enable Active Scripting in the Scripting section.
- Done.

Mozilla Firefox

- Enter as address: about:config.
- Search for "javascript.enabled".
- Change the value to "true".

5.4 Error message 4

5.4.1 Problem identification

Cannot find gps coordinates.

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$5.4.2\ Probable\ cause$

• The area you are might not be covered by any satelite.

5.4.3 Corrective actions

• You can try to move a bit away from the current position and try it again.

Appendix A Title of the appendix 1

Here you write the context of the appendix, structuring such content in sections, sub-sections and sub-sub-sections, if needed.

An example of appendix is the flat presentation of all the graphical user interface screens. Each screen can be presented (identification symbol and description) and screens transition graph can be given.

A.1 My Section

Description of the section.

A.1.1 My subSection

A.1.1.1 My subSubSection

References 31

References

1. IEEE: IEEE Standard for Software User Documentation. IEEE Std 1063-2001 (Dec 2001) 1–24 $\,$