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# Chapter 1

## Introduction

1.1 Overview

1.2 Purpose and recipients of the document

1.3 Application Domain

1.4 Definitions, acronyms and abbreviations

1.5 Document structure





## Chapter 2

# General Description

### 2.1 Domain Stakeholders

## 2.2 System's Actors

The objective of this section is not to provide the full requirement elicitation document in this section but to reuse a part of this document to provide a informal introduction to the **Messip** specification of the system under development. The use case model is made of a use case diagrams modelling abstractly and informally the actors and their use cases together with a set of use cases descriptions. In addition, those diagrams and description tables are adapted to the **Messip** specification since actor and messages names together with parameters are partly adapted to be consistent with the specification identifiers (see [?] for more details).

## 2.3 Use Cases Model

This section contains the use cases elicited during the requirements elicitation phase. The use cases are textually described as suggested by the **Messip** method and inspired by the standard Cokburn template [?].

### 2.3.1 Use Cases

There are no elements in this category in the system analysed.

### **2.3.2 Use Case Instance(s)**

There are no elements in this category in the system analysed.



## Chapter 3

# Environment Model

### 3.1 Environment model view(s)

There are no view(s) for the **messip** environment model.

### 3.2 Actors and Interfaces Descriptions

There are no elements in this category in the system analysed.



# Chapter 4

## Concept Model

### 4.1 Concept Model view(s)

There are no view(s) for the **Messip** concept model.

### 4.2 Concept Model Types Descriptions

This section provides the textual descriptions of all the types defined in the concept model and that can be part of the graphical views provided.

#### 4.2.1 Primary types - Class types descriptions

There are no elements in this category in the system analysed.

#### 4.2.2 Primary types - Datatypes types descriptions

There are no elements in this category in the system analysed.

#### 4.2.3 Primary types - Association types descriptions

There are no association types for the primary types.

#### 4.2.4 Primary types - Aggregation types descriptions

There are no aggregation types for the primary types.

##### 4.2.4.1 Primary types - Composition types descriptions

There are no composition types for the primary types.

#### 4.2.5 Secondary types - Class types descriptions

There are no elements in this category in the system analysed.

#### 4.2.6 Secondary types - Datatypes types descriptions

There are no elements in this category in the system analysed.

**4.2.7 Secondary types - Association types descriptions**

There are no association types for the secondary types.

**4.2.8 Secondary types - Aggregation types descriptions**

There are no aggregation types for the secondary types.

**4.2.9 Secondary types - Composition types descriptions**

There are no composition types for the secondary types.



# Chapter 5

## Operation Model

This section contains the operation schemes of each operation defined in either an actor, its output interface, in a primary or secondary type (class, datatype or enumeration types). The **messi** OCL code listing is joined to the comment table.

### 5.1 Environment - Out Interface Operation Schemes

There are no elements in this category in the system analysed.

### 5.2 Environment - Actor Operation Schemes

There are no elements in this category in the system analysed.

### 5.3 Primary Types - Operation Schemes for Classes

There are no elements in this category in the system analysed.

### 5.4 Primary Types - Operation Schemes for Datatypes

There are no elements in this category in the system analysed.

### 5.5 Primary Types - Operation Schemes for Enumerations

There are no elements in this category in the system analysed.

### 5.6 Secondary Types - Operation Schemes for Classes

There are no elements in this category in the system analysed.

### 5.7 Secondary Types - Operation Schemes for Datatypes

There are no elements in this category in the system analysed.

## 5.8 Secondary Types - Operation Schemes for Enumerations

There are no elements in this category in the system analysed.

## Chapter 6

### Test Model(s)

There are no elements in this category in the system analysed.



## Chapter 7

# Additional Constraints



# Appendix A

## Undocumented Messir Specification Elements

### A.1 Undocumented Use Cases

#### A.1.1 Undocumented Summary Level Use Cases

- `lu.uni.lassy.excalibur.group09.spec.usecases.suGlobalManagementOfEvent`

#### A.1.2 Undocumented Subfunction Level Use Cases

- `lu.uni.lassy.excalibur.group09.spec.usecases.oeCreateNewCrisisEvent`
- `lu.uni.lassy.excalibur.group09.spec.usecases.oeRequestCoordinates`
- `lu.uni.lassy.excalibur.group09.spec.usecases.oeRequestHelp`
- `lu.uni.lassy.excalibur.group09.spec.usecases.oeSendCoordinates`
- `lu.uni.lassy.excalibur.group09.spec.usecases.oeUpdateDispatchStatus`

### A.2 Undocumented Actors

- `lu.uni.lassy.excalibur.group09.spec.environment.actCommunicationCompany`
- `lu.uni.lassy.excalibur.group09.spec.environment.actEmergencyCoordinator`
- `lu.uni.lassy.excalibur.group09.spec.environment.actFiremenCoordinator`
- `lu.uni.lassy.excalibur.group09.spec.environment.actPoliceCoordinator`
- `lu.uni.lassy.excalibur.group09.spec.environment.actTowServiceCoordinator`

### A.3 Undocumented Primary Types

#### A.3.1 Undocumented Primary Classe Types

- `lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.classes.ctState`

### A.3.2 Undocumented Primary Datatype Types

- lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes.dtAddress
- lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes.dtCoordinates
- lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes.dtCrisisID
- lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes.dtPhoneNumber

### A.3.3 Undocumented Primary Enumeration Types

- lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes.enDispatchStatus
- lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes.enHumanType
- lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes.enTeamType

## A.4 Undocumented Operation Specifications

- lu.uni.lassy.excalibur.group09.spec.environment.actCommunicationCompany.outactCommunicationCompany
- lu.uni.lassy.excalibur.group09.spec.environment.actEmergencyCoordinator.outactEmergencyCoordinator.oe
- lu.uni.lassy.excalibur.group09.spec.environment.actEmergencyCoordinator.outactEmergencyCoordinator.oe
- lu.uni.lassy.excalibur.group09.spec.environment.actEmergencyCoordinator.outactEmergencyCoordinator.oe
- lu.uni.lassy.excalibur.group09.spec.environment.actEmergencyCoordinator.outactEmergencyCoordinator.oe
- lu.uni.lassy.excalibur.group09.spec.environment.actFiremenCoordinator.outactFiremenCoordinator.oeMessag
- lu.uni.lassy.excalibur.group09.spec.environment.actFiremenCoordinator.outactFiremenCoordinator.oeRefre
- lu.uni.lassy.excalibur.group09.spec.environment.actFiremenCoordinator.outactFiremenCoordinator.oeRequ
- lu.uni.lassy.excalibur.group09.spec.environment.actFiremenCoordinator.outactFiremenCoordinator.oeUpda
- lu.uni.lassy.excalibur.group09.spec.environment.actPoliceCoordinator.outactPoliceCoordinator.oeMessage
- lu.uni.lassy.excalibur.group09.spec.environment.actPoliceCoordinator.outactPoliceCoordinator.oeUpdateDis
- lu.uni.lassy.excalibur.group09.spec.environment.actTowServiceCoordinator.outactTowServiceCoordinator.oe
- lu.uni.lassy.excalibur.group09.spec.environment.actTowServiceCoordinator.outactTowServiceCoordinator.oe



## Appendix B

# Messir Specification Files Listing

### B.1 File ./src-gen/messir-spec/.views.msr

```
1 //
2 //DON'T TOUCH THIS FILE !!!
3 //
4 package uuidff8a216549a64951bf055c8b5a9dde2a {
5   Concept Model {}
6 }
```

Listing B.1: Messir Spec. file .views.msr.

### B.2 File ./src-gen/messir-spec/environment/environment.msr

```
1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.environment {
7
8   import lu.uni.lassy.messir.libraries.calendar
9   import lu.uni.lassy.messir.libraries.math
10  import lu.uni.lassy.messir.libraries.primitives
11  import lu.uni.lassy.messir.libraries.string
12
13  import lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes
14
15  Environment Model {
16
17    actor actEmergencyCoordinator role rnactEmergencyCoordinator cardinality [1..*] {
18
19      operation init():ptBoolean
20
21      input interface inactEmergencyCoordinator {
22        operation ieReceiveCoordinates(AdtCoordinates:dtCoordinates) : ptBoolean
23        operation ieMessage(AMessage:ptString) : ptBoolean
24      }
25
26      output interface outactEmergencyCoordinator {
27        operation oeRequestCoordinates(AdtPhoneNumber:dtPhoneNumber) : ptBoolean
28        operation oeMessage(AMessage:ptString) : ptBoolean
29        operation oeCreateNewCrisisEvent(AdtCrisisID:dtCrisisID, AdtName:ptString, AenHumanType:
          enHumanType, AdtPhoneNumber:dtPhoneNumber, AdtCrisisEventLocation:dtAddress) :
          ptBoolean
30        operation oeConfirmLocation() : ptBoolean
31      }
32    }
33
34    actor actCommunicationCompany role rnactCommunicationCompany cardinality [1..*] {
```

```

35
36  operation init() : ptBoolean
37
38  input interface inactCommunicationCompany {
39      operation ieRequestCoordinates(AdtPhoneNumber:dtPhoneNumber) : ptBoolean
40  }
41
42  output interface outactCommunicationCompany {
43      operation oeSendCoordinates(AdtCoordinates:dtCoordinates) : ptBoolean
44  }
45  }
46
47  actor actFiremenCoordinator role rnactFiremenCoordinator cardinality [1..*] {
48
49      operation init() : ptBoolean
50
51      input interface inactFiremenCoordinator {
52          operation ieReceiveNewCrisisEvent(AdtCrisisID:dtCrisisID, AdtName:ptString, AenHumanType:
53              enHumanType, AdtPhoneNumber:dtPhoneNumber, AdtCrisisEventLocation:dtAddress) :
54              ptBoolean
55      }
56
57      output interface outactFiremenCoordinator {
58          operation oeMessage(AMessage:ptString) : ptBoolean
59          operation oeUpdateDispatchStatus(AenDispatchStatus:enDispatchStatus): ptBoolean
60          operation oeRequestHelp(AdtVehicleType: enTeamType, ARequestedNumber:ptInteger) : ptBoolean
61          operation oeRefreshMap() : ptBoolean
62      }
63  }
64
65  actor actPoliceCoordinator role rnPoliceCoordinator cardinality [1..*] {
66
67      operation init() : ptBoolean
68
69      input interface inactPoliceCoordinator {
70          operation ieReceiveNewCrisisEvent(AAdtCrisisID:dtCrisisID, AdtName:ptString, AenHumanType:
71              enHumanType, AdtPhoneNumber:dtPhoneNumber, AdtCrisisEventLocation:dtAddress) :
72              ptBoolean
73      }
74
75      output interface outactPoliceCoordinator {
76          operation oeMessage(AMessage:ptString) : ptBoolean
77          operation oeUpdateDispatchStatus(AenDispatchStatus:enDispatchStatus): ptBoolean
78      }
79  }
80
81  actor actTowServiceCoordinator role rnTowSericeCoordinator cardinality [1..*] {
82
83      operation init() : ptBoolean
84
85      input interface inactTowServiceCoordinator {
86          operation ieReceiveNewCrisisEvent(AdtCrisisID:dtCrisisID, AdtName:ptString, AenHumanType:
87              enHumanType, AdtPhoneNumber:dtPhoneNumber, AdtCrisisEventLocation:dtAddress) :
88              ptBoolean
89      }
90
91      output interface outactTowServiceCoordinator {
92          operation oeMessage(AMessage:ptString) : ptBoolean
93          operation oeUpdateDispatchStatus(AenDispatchStatus:enDispatchStatus): ptBoolean
94      }
95  }
96  }
97  }
98  }
99  }
100 }

```

Listing B.2: Messir Spec. file environment.msr.

## B.3 File `./src-gen/messir-spec/concepts/primarytypes-associations/primarytypes-associations.msr`

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.associations {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15 Primary Types {
16
17 }
18 }
19 }

```

Listing B.3: Messir Spec. file primarytypes-associations.msr.

## B.4 File `./src-gen/messir-spec/concepts/primarytypes-classes/primarytypes-classes.msr`

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.classes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 import lu.uni.lassy.messir.libraries.primitives
14
15 Concept Model {
16
17 Primary Types {
18
19 state class ctState {
20 attribute vpStarted: ptBoolean
21
22 operation init(AvpStarted:ptBoolean): ptBoolean
23 }
24
25 }
26 }
27 }

```

Listing B.4: Messir Spec. file primarytypes-classes.msr.

## B.5 File `./src-gen/messir-spec/concepts/primarytypes-datatypes/primarytypes-datatypes.msr`

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016

```

```

4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15 Primary Types {
16     datatype dtPhoneNumber {
17         attribute value : ptInteger
18     }
19
20     datatype dtAddress {
21         attribute value : ptString
22     }
23
24     datatype dtCrisisID {
25         attribute value : ptInteger
26     }
27
28     datatype dtCoordinates {
29         attribute X : ptInteger
30         attribute Y : ptInteger
31     }
32
33     enum enDispatchStatus {
34         constants["InStation", "InTransit", "Arrived"]
35     }
36
37     enum enHumanType {
38         constants["Victim", "Witness"]
39     }
40
41     enum enTeamType {
42         constants["AmbulanceTeam", "PoliceTeam", "TowServiceTeam", "FireFighterTeam"]
43     }
44 }
45 }
46 }

```

Listing B.5: Messir Spec. file primarytypes-datatypes.msr.

## B.6 File `./src-gen/messir-spec/concepts/secondarytypes-associations/secondarytypes-associations.msr`

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.concepts.secondarytypes.associations {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15 Secondary Types {
16
17 }
18 }

```

19 }

Listing B.6: Messir Spec. file secondarytypes-associations.msr.

## B.7 File `./src-gen/messir-spec/concepts/secondarytypes-classes/secondarytypes-classes.msr`

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.concepts.secondarytypes.classes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15   Secondary Types {
16
17   }
18 }
19 }
```

Listing B.7: Messir Spec. file secondarytypes-classes.msr.

## B.8 File `./src-gen/messir-spec/concepts/secondarytypes-datatypes/secondarytypes-datatypes.msr`

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.concepts.secondarytypes.datatypes {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Concept Model {
14
15   Secondary Types {
16
17   }
18 }
19 }
20 }
```

Listing B.8: Messir Spec. file secondarytypes-datatypes.msr.

## B.9 File `./src-gen/messir-spec/tests/tests.msr`

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.tests {
7
```

```

8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12
13 Test Model {
14
15 }
16
17 }

```

Listing B.9: Messir Spec. file tests.msr.

## B.10 File ./src-gen/messir-spec/usecases/usecases.msr

```

1 /*
2 * @author Kira
3 * @date Tue Oct 25 23:54:03 CEST 2016
4 */
5
6 package lu.uni.lassy.excalibur.group09.spec.usecases {
7
8 import lu.uni.lassy.messir.libraries.calendar
9 import lu.uni.lassy.messir.libraries.math
10 import lu.uni.lassy.messir.libraries.primitives
11 import lu.uni.lassy.messir.libraries.string
12 import lu.uni.lassy.excalibur.group09.spec.environment
13 import lu.uni.lassy.excalibur.group09.spec.concepts.primarytypes.datatypes
14
15 Use Case Model {
16
17 use case system summary suGlobalManagementOfEvent() {
18     actor actEmergencyCoordinator[primary, active]
19     actor actCommunicationCompany[secondary, active]
20     actor actFiremenCoordinator[secondary, active]
21     actor actPoliceCoordinator[secondary, active]
22     actor actTowServiceCoordinator[secondary, active]
23
24     reuse oeRequestCoordinates[0..*]
25     reuse oeSendCoordinates[0..*]
26     reuse oeCreateNewCrisisEvent[1..*]
27     reuse oeUpdateDispatchStatus[2..*]
28     reuse oeRequestHelp[0..*]
29
30     step a: actEmergencyCoordinator executes oeRequestCoordinates
31     step b: actCommunicationCompany executes oeSendCoordinates
32     step c: actEmergencyCoordinator executes oeCreateNewCrisisEvent
33     step d: actFiremenCoordinator executes oeUpdateDispatchStatus
34     step e: actTowServiceCoordinator executes oeUpdateDispatchStatus
35     step f: actFiremenCoordinator executes oeUpdateDispatchStatus
36     step g: actFiremenCoordinator executes oeRequestHelp
37     step h: actPoliceCoordinator executes oeUpdateDispatchStatus
38     step i: actTowServiceCoordinator executes oeUpdateDispatchStatus
39     step j: actPoliceCoordinator executes oeUpdateDispatchStatus
40
41 }
42
43 use case system subfunction oeRequestCoordinates(AdtPhoneNumber:dtPhoneNumber) {
44     actor actEmergencyCoordinator[primary, active]
45     actor actCommunicationCompany[secondary, passive]
46     returned messages{
47         ieRequestCoordinates(AdtPhoneNumber) returned to actCommunicationCompany //Slide 208..
48     }
49 }
50
51 use case system subfunction oeSendCoordinates(AdtCoordinates:dtCoordinates) {
52     actor actCommunicationCompany[primary, active]
53     actor actEmergencyCoordinator[secondary, passive]
54     returned messages{

```

```

55     ieReceiveCoordinates(AdtCoordinates) returned to actEmergencyCoordinator
56 }
57 }
58
59 use case system subfunction oeCreateNewCrisisEvent(AdtCrisisID:dtCrisisID, AdtName:ptString,
    AenHumanType:enHumanType, AdtPhoneNumber:dtPhoneNumber, AdtCrisisEventLocation:dtAddress) {
60     actor actEmergencyCoordinator[primary,active]
61     actor actFiremenCoordinator[secondary,passive]
62     actor actPoliceCoordinator[secondary,passive]
63     actor actTowServiceCoordinator[secondary,passive]
64     returned messages{
65         ieReceiveNewCrisisEvent(AdtCrisisID, AdtName, AenHumanType, AdtPhoneNumber,
            AdtCrisisEventLocation) returned to actFiremenCoordinator
66 //     ieReceiveNewCrisisEvent(AdtCrisisID, AdtCrisisEventLocation) returned to
            actTowServiceCoordinator
67     }
68 }
69
70 use case system subfunction oeUpdateDispatchStatus(AenDispatchStatus:enDispatchStatus) {
71     actor actFiremenCoordinator[primary,active]
72 //     actor actTowServiceCoordinator[primary,active]
73 //     actor actPoliceCoordinator[primary,active]
74 }
75
76 use case system subfunction oeRequestHelp(AdtVehicleType: enTeamType, RequestedNumber:ptInteger) {
77     actor actFiremenCoordinator[primary,active]
78     actor actPoliceCoordinator[secondary,passive]
79     actor actTowServiceCoordinator[secondary,passive]
80     returned messages{
81         ieReceiveNewCrisisEvent(AdtCrisisID, AdtName, AenHumanType, AdtPhoneNumber,
            AdtCrisisEventLocation) returned to actFiremenCoordinator
82 //     ieReceiveNewCrisisEvent(AdtCrisisID, AdtCrisisEventLocation) returned to
            actTowServiceCoordinator
83     }
84 }
85
86 }
87
88 }

```

Listing B.10: Messir Spec. file usecases.msr.





