



# Request for Notification - FANS

## UML for Embedded Systems

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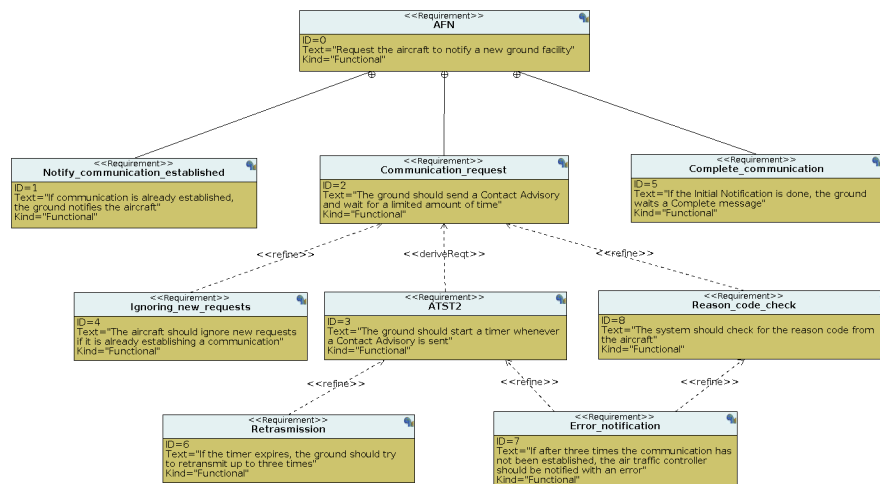
Date Performed: data  
Partners: Simone Rossi

NB: all the comments and discussions are related to the extended model which handles also message parameters

## 1 Hypothesis

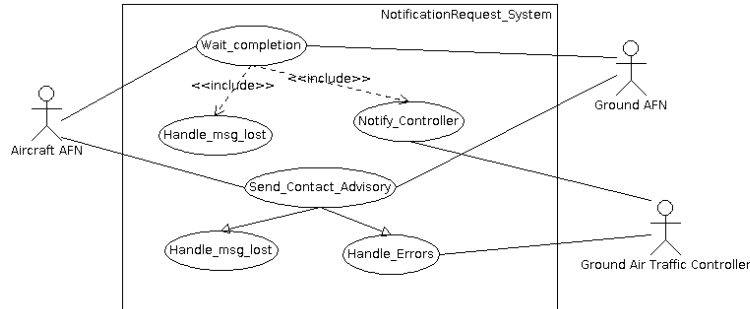
An information is missing: what should the system do if the timer ATST3 expires? I decided to inform the air traffic controller via signal.

## 2 Requirements

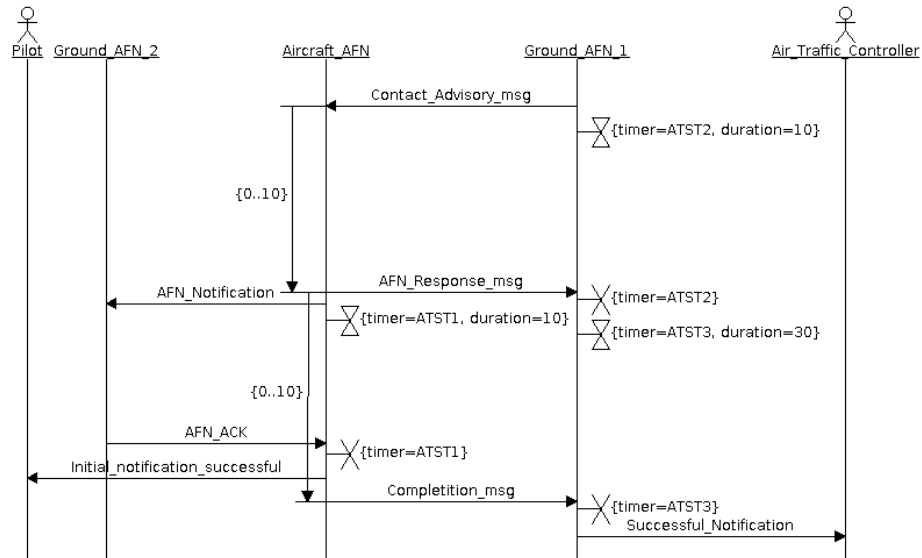


### 3 Analysis

#### 3.1 Case diagram

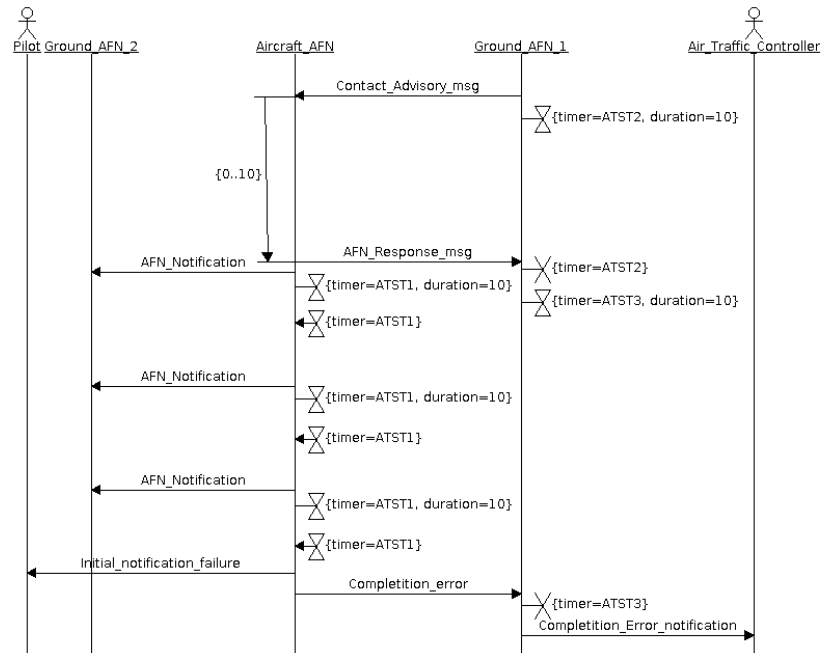


#### 3.2 Nominal Case



Here is shown a nominal case for the Notification Request system. The first ground AFN sends to the aircraft the notification to start a new authentication procedure with a new facility. As soon as the aircraft receives the message, it replies to the first AFN and starts the Initial Notification procedure with a new ground AFN. When done, the pilot as well as the first facility are notified with a successful message.

### 3.3 Error Case 1



### 3.4 Error Case 2

## 4 Design

### 4.1 Block diagrams

### 4.2 Flow diagrams

## 5 Verification