

## Activity Title:

*Galileo Second Generation (G2G): Early Warning Service simulator*

## Activity Reference:

Satellite Navigation Systems

## Activity Proposed Duration

6 months (1 resource)

## Thales Alenia Space Italia Reference Person (Company Tutor):

**Name:** Massimo Eleuteri      **Entity:** System Design and Performance unit at DONI Engineering

## Activity Context Summary

Thales Alenia Space is participating to the design of the next generation of the European Satellite Navigation System Galileo. In this context a new service, i.e. the Early Warning Service, is going to be designed.

## Activity Technical Objectives:

The technical objective of this stage is to design and implement (in Matlab) a simulator of the Early Warning Service (a new service to be provided by Galileo in the next future) to be used in support of all design and verification activities for this new functionality.

## Proposed Activity Path and Approach:

1. Analysis of the current design of the Early Warning Service.
2. Design and implementation of the Early Warning Service simulator (Matlab)
3. Analysis for the dimensioning and optimization of the Early Warning Service functionalities and performances
4. Integration of the Early Warning Service simulator
5. Update of the Early Warning Service simulator in line with project evolution

