Marie-Curie Project:

Requirements-aware Systems (Requirements@run.time)

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This project uses the novel notion of requirements reflection, that is, the ability of a system to dynamically observe and reason about its requirements. The project aims to address the need of having systems requirements-aware by reifying requirements as run-time

objects (i.e. requirements@run.time). This project will contribute towards development of conceptual foundations, engineering techniques, and computing infrastructure for the systematic development of dynamically-adaptive systems based on the principle of requirements reflection.

The main research questions I am investigating are:

 - How to represent requirements as runtime objects so that the requirements are amenable to introspection and adaptation?

- How to relate runtime requirements decisions to changes in the softwar architecture?

The 24-month project started in May 2011 and should be finished by May 2013.

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