Abstract

This report describes the internship project developed by André Filipe Lourenço Lessa on Qimonda Portugal S.A.

Porto Development Center is the unit responsible for developing software solutions to the world-wide semiconductor manufacturing facilities of Qimonda. Solutions developed in Portugal are installed and running productively in non-stop production facilities, covering a wide range of manufacturing areas in several different technological areas.

The Porto Development Center adopted a Quality Management System aiming the fulfillment of the Software Engineering Institute CMMI model goals. Every year, more than 40 projects involving over 100 software engineers, follow the quality management processes defined.

CMMI is on the leading edge of software methodologies, with an extremely fast adoption in all world-wide software industries. One key process area of CMMI is the Measurement Analysis. The main goal is to, based on the business objectives, define indicators and metrics to assess their fulfillment. In CMMI terms, it is also one enabler of higher maturity levels, particularly the ones requiring quantitative management.

The goal of this internship was then to define, design, build and deploy a software solution, integrated in the platform that manages the CMMI processes, that stores process metrics and indicators.