

## ABSTRACT

Nowadays, software developers in Indonesia have been increasing rapidly along with the advance of computer technology. The number of software house in Indonesia on 2006, was predicted have 250 software house and it will be increasing twice in next five years. In other side, as long as global market, local software developers have chance to compete with outside software developers. To compete in global market, every software house must have quality standard measurement that focus on software reengineering process and this quality standard is also counted as international quality standard.

Based on those backgrounds, the researcher tried to applying the quality standard Capability Maturity Model<sup>®</sup> Integration for Development (CMMI-Dev<sup>®</sup>) which is a method to assess and to evaluate maturity level of software development. CMMI is one of the international quality standards that is not only evaluating but also giving the alternative to company to rise higher level on CMMI. This research used continuous representation as assessment method that would assess capability level in each process areas. There are five capability levels in CMMI, and those are performed, managed, defined, quantitatively managed, and optimized levels. Beside that, this research only assess in two process areas, requirement management and project planning.

Assessment starts on comparing the CMMI standard practices with an existing implementation in company. To know this, the researcher has done interviewing and giving questionnaire to a project management. After that, all data will be gathered, because these data will become proof of practices implementation in that company.

After the assessment, the results show that this company only achieves level 1 for requirement management and level 2 for project planning. This condition can caused because there are several practices that have not implemented properly or even no implementation yet. Some of practices that have not implemented yet such as there is no training for the staff and no planning for data management at all.

To achieve every level on CMMI, the company must improve by changing or even adding new procedure that appropriate with CMMI. The researcher suggest that company must provide specific training for every staff that handle requirement management and also must have planning for data management that agree with CMMI.

Keyword: Software, CMMI, continuous representation, requirement management, project planning