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Master's Dissertation 2015

Risk Management Process Framework to Capture Project Context and Decision Making Strategy

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SUMMARY OF MASTER'S DISSERTATION

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Risk Management Process Framework to Capture Project Context and Decision Making Strategy

Lesson learned is wide used in many projects and organization all over the world. Nevertheless, the utilization is not so effective due to three barriers. The first one is there are considerable values for future project but too few for the current ones. The second is most of Lesson learned database is very complicated and difficult to define applicable items. The last one is solutions in many case cannot be applied to other projects due to differences in project context (conditions, constraints, organizational environment, etc.). In this research, a risk management framework is introduced to overcome these three barriers. The framework consists of risk management strategies driven by project context. Results of risk management process are presented as outcomes of those strategies. All of this information formed a thinking process description in risk management that describe thinking flow of project team towards risk management decisions. The framework application can support decision-making in risk management as a visualized tool for project team communication. Moreover, a systematic approach by using context diagram to analyze and capture project context may support to deal with very complicated project with many elements interacting with each other. For the shake of Lesson learned, future project member can utilize these strategies and corresponding contexts as directions to risk management solutions.

The proposed framework in this research is verified by applying to a satellite development project named MicroDragon (MDG). This is a four years project to develop a 50 Kg satellite. The project is run by Vietnamese engineers from Vietnam National Satellite who is taking master courses in Japan under instruction of their professors and experts of satellite technology. The framework is applied to each of risk management activities in MDG project. Verification and validation in this research also includes interviewing activities. Users, experts in satellite project and risk management fields are the targets for interviewing.

Key Word: Risk management, strategy, context, thinking process description, MicroDragon (MDG)