

Towards a Theory on Collaborative Decision Making in Enterprise Architecture

Agnes Nakakawa¹, Patrick van Bommel¹, and Erik Proper^{1,2}

¹ ICIS, Radboud University Nijmegen

P.O. BOX 9010 6500, GL Nijmegen, The Netherlands

² CITI, CRP Henri Tudor Luxembourg, Luxembourg

A.Nakakawa@science.ru.nl, pvb@cs.ru.nl, e.proper@acm.org

Abstract. Several challenges in enterprise architecture development indicate the need for collaborative decision making to be deployed during architecture creation. However, how this should be achieved remains ad hoc. This paper, therefore, presents an evolving theory that is currently being used to guide the development of a method for supporting collaborative decision making during enterprise architecture creation. The first iteration to evaluate the relevance of the concepts in this theory was done using an exploratory survey, and the findings are briefly presented.

Keywords: Enterprise Architecture, Collaborative Decision Making.

1 Introduction

Some challenges in enterprise architecture development can be addressed by complementing architecture approaches with collaborative decision making. Therefore, this research uses the Design Science research methodology to develop a method for supporting collaborative decision making during enterprise architecture creation. Since the method will specifically enable Collaborative Evaluation of Enterprise Architecture Design Alternatives (CEADA), it is herein referred to as CEADA. Design Science facilitates the creation and evaluation of practical innovative artifacts for solving significant organizational problems [2]. The resultant artifact in this research is the CEADA method. However, there is need to formulate a theory, based on existing theories, that will guide the development of CEADA. This theory can help researchers and practitioners to gain insight into the orchestration of key determinants for collaborative decision making to be successfully realized during enterprise architecture creation. Section 2 presents the evolving theory and section 3 presents the results from the first iteration of the theory as well as the conclusion.

2 Joint Decision Making in Enterprise Architecture

Theory refers to the body of knowledge that describes, explains, and increases understanding of a situation in order to predict future occurrences and to lay

