

Chapter 13

Policy Cycle–Based E–Government Architecture for Policy–Making Organisations of Public Administrations

Konrad Walser

Bern University of Applied Sciences, Switzerland

Reinhard Riedl

Bern University of Applied Sciences, Switzerland

ABSTRACT

This article outlines a business and application architecture for policy-making organisations of public administrations. The focus was placed on the derivation of processes and their IT support on the basis of the policy-cycle concept. The derivation of various (modular) process areas allows for the discussion of generic application support in order to achieve the modular structure of e-government architectures for policy-making organisations of public administrations, as opposed to architectures for operational administration processes by administrations. In addition, further issues and spheres of interest to be addressed in the field of architecture management for policy-making organisations of public administrations will be specified. Different architecture variants are evaluated in the context of a potential application of the architecture design for policy-making organisations of public administrations. This raises questions such as how the issue of interoperability between information systems of independent national, state, and municipal administrations is to be tackled. Further research is needed to establish, for example, the level of enterprise architecture and the depth to which integration in this area must or may extend.

DOI: 10.4018/978-1-4666-2654-6.ch013

INTRODUCTION

Motivation for the Article and Statement of the Problem

Enterprise architecture management in e-government has been frequently discussed and operated at a highly technical level so far. An extremely compelling method for deriving e-government application landscapes appears to come from business. In order to understand business in the administrative context, it is necessary to record and to differentiate business process areas and organisational correlations. In a business process model for the e-government area, it is possible to differentiate the following process areas according to Walser (2008) and Walser and Riedl (2009): policy-making processes, operational business processes, strategic business processes for the two aforementioned process categories, and support processes and processes in the area of interoperability (extending business processes across administrative units in hierarchical, vertical or network form). The discussion of political or policy-making processes is therefore difficult and problematic, because political activities are less transparent, less straightforward, and more complex, than operational administration processes, for example. Moreover, until now there has been no clear and reliable model for explaining policy-making processes and procedures, which may vary depending on national state systems. In order to discuss the architecture, therefore, it was necessary to find a concept or model which is as simple as possible, and the components of which can be converted into enterprise architecture. This is the case with the policy cycle concept.

It is very likely that enterprise architectures for organisational units which are specialised in making policies on a federal level are more dominant and more differentiated than those on the member state or municipality level. However, the mechanisms among administrations, executive, legislature, and stakeholders as well as voters

on all three levels, federal, (member) state, and municipality, can be considered to be similar, even if – from an institutional point of view – they are not as extensively developed. From this perspective, it may seem obvious to consider an independent generic architecture model for policy-making organisations of public administrations which involves all possible stakeholders, based – for instance – on a stakeholder model of a policy domain. An interoperability concept should be implemented between operational administration information systems and policy administration information systems. Policies may be (but do not have to be) based on information input from the operational administration level.

Thus the notion of forming the architectural concept in conjunction with the policy cycle is a new subject, as is addressing the generic enterprise architecture topic in administrations. Little literature is available. Only few convincing solutions for the issues to be addressed have been visualised or realised in practice. Apart from the policy cycle concept (Lasswell, 1956, 1971; Héritier, 1993; Everett, 2003; Howard, 2005) – which is considered to be controversial due to its practicability – no empirically verified and unique concept of policy-making organisations exists that could serve as a basis for the specification of architectures. In addition, the stakeholder concept (participants of the political process) needs to be considered in order to distinguish political processes of an administration in terms of cooperation. Currently, only a few aspects of the policy cycle are discussed via certain keywords in e-government: e.g. e-participation, e-voting, e-citizenship. All these concepts need to be properly distinguished from the operational administration work through an appropriate architecture discourse and must be put in a binding framework. However, interfaces do exist between operational administration and policy-making, e.g., in the data area. (Electronic) elections and votes require citizen data which is managed and maintained by operational administrations. Thus, the architectures of both

18 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

www.igi-global.com/chapter/policy-cycle-based-government-architecture/73095

Related Content

Novel Architecture for Image Classification Based on Rough Set

S. Nivetha and H. Hannah Inbarani (2023). *International Journal of Service Science, Management, Engineering, and Technology* (pp. 1-38).

www.irma-international.org/article/novel-architecture-for-image-classification-based-on-rough-set/323452

A General View of Quality Models for Web Portals and a Particularization to E-Banking Domain

M^a Ángeles Moraga, Julio Córdoba, Coral Calero and Cristina Cachero (2010). *Electronic Services: Concepts, Methodologies, Tools and Applications* (pp. 426-443).

www.irma-international.org/chapter/general-view-quality-models-web/43963

Technology Adoption and Educational Change in Turkey

Serhat Kurt (2011). *International Journal of Information Systems in the Service Sector* (pp. 76-85).

www.irma-international.org/article/technology-adoption-educational-change-turkey/53231

M-Government for Emergency Notifications

Rhoda C. Joseph and Roderick L. Lee (2015). *International Journal of E-Services and Mobile Applications* (pp. 50-64).

www.irma-international.org/article/m-government-for-emergency-notifications/120725

National Interoperability Frameworks: The Way Forward

Fenareti Lampathaki, Christos Tsiakaliaris, Antonis Stasis and Yannis Charalabidis (2011). *Interoperability in Digital Public Services and Administration: Bridging E-Government and E-Business* (pp. 1-24).

www.irma-international.org/chapter/national-interoperability-frameworks/45780