

# One Minute Enterprise Architecture

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## Abstract

*Presently the notion of enterprise architecture (EA) is closely associated with EA frameworks. However, my analysis shows that real EA practices resemble neither the “letter” nor the “spirit” of EA frameworks. Instead, “One Minute Enterprise Architecture” provides much more clear, realistic and powerful way to explain the notion of EA as well as the general mechanism of EA practice. It conceptualizes EA as a collection of four types of EA artifacts (Principles, Visions, Standards and Models) and EA practice as a set of three EA-related processes (Decision-Making, Architecting and Implementation).*

## Frameworks Hardly Explain Enterprise Architecture

Currently for many people the notion of EA is closely associated with popular EA frameworks, such as The Open Group Architecture Framework (TOGAF)<sup>1</sup> or the Zachman Framework<sup>2</sup>. However, as I previously reported based on my analysis of EA practices in multiple organizations, successful TOGAF-based EA practices have essentially nothing to do with the actual TOGAF prescriptions<sup>3, 4</sup>. My additional studies completely support the previous conclusions and can be also generalized from TOGAF to other EA frameworks as well, i.e. no real vestiges of any EA frameworks can be observed in organizations successfully practicing EA.

Interestingly, neither specific details nor even general ideas advocated by EA frameworks can be found in real EA practices. From the details perspective, nobody fills the cells of the Zachman Framework, nobody follows the steps of the architecture development method (ADM) of TOGAF and nobody develops the heaps of EA artifacts recommended by TOGAF, even among the organizations included in the list of TOGAF users provided by The Open Group<sup>5</sup>. From the conceptual perspective, nobody strives to create formal comprehensive descriptions of their organizations analogous to buildings or airplanes as recommended by John Zachman and nobody follows “plan the whole enterprise and then implement” sequential logic advocated by TOGAF. Therefore, successful EA practices resemble neither the “letter” nor the “spirit” of EA frameworks.

## What Is Then Enterprise Architecture?

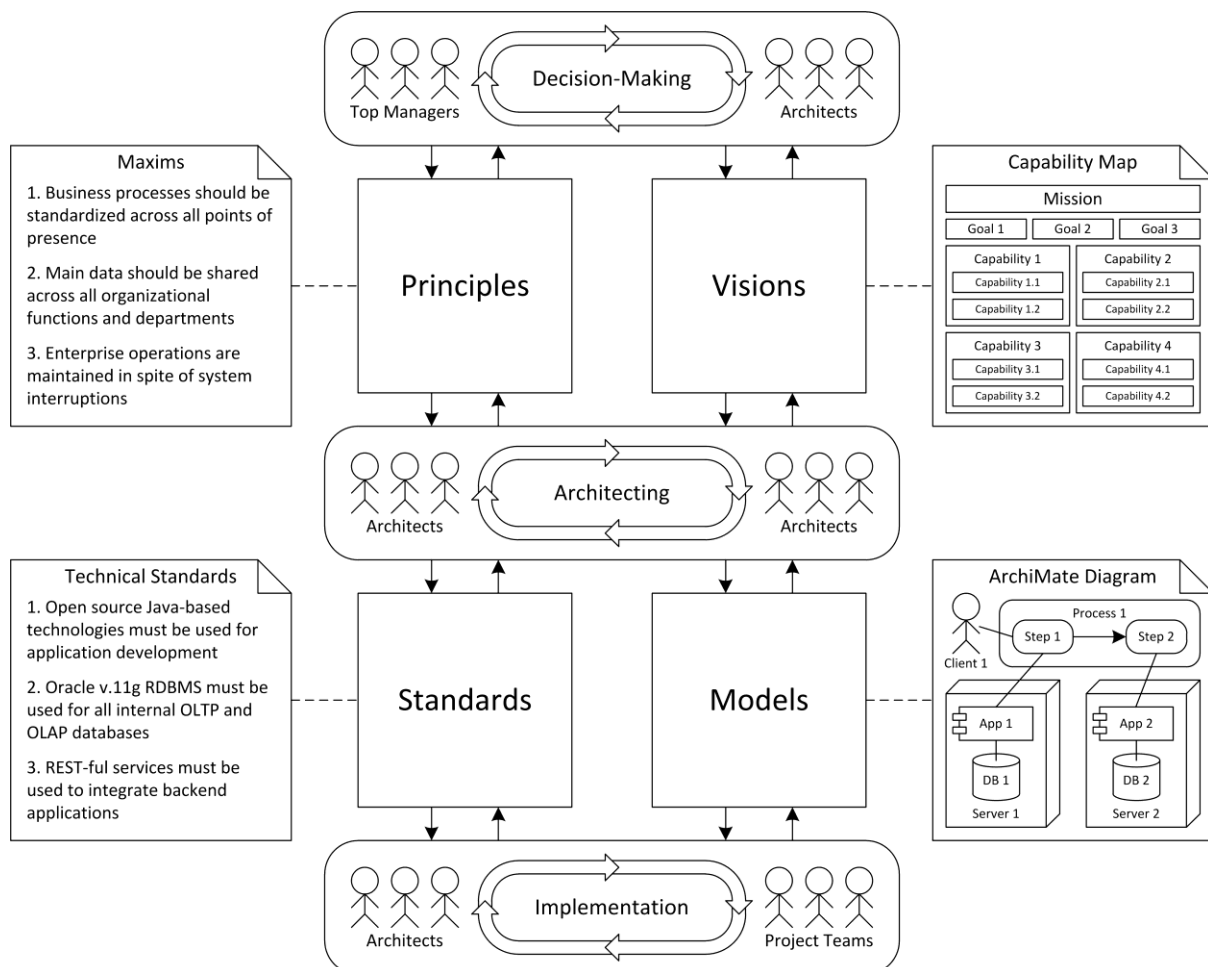
But if the descriptions of EA and EA practice provided by the sources that are often considered as definitive for the very EA discipline are inadequate, then what is EA and EA practice? My analysis of EA practices in organizations suggests that EA can be conceptualized as a collection of four broad types of EA artifacts: Principles, Visions, Standards and Models.

Principles are high-level policy statements helping align information systems with the organizational philosophy and improve the conceptual homogeneity of the IT landscape. Visions are abstract business-oriented, often one-page diagrams helping manage IT investments and enable the long-term strategic information systems planning. Standards are implementation-level rules helping limit the range of supported technologies and achieve the technical uniformity of the IT landscape. Models are detailed technical diagrams helping select best implementation options and carry out the mid-term and tactical information systems planning.

Principles and Visions are business-facing EA artifacts. They are brief, contain only the most essential information and written in a plain business language. The purpose of these EA artifacts is to help senior business leaders manage IT. Essentially, Principles and Visions serve as “interfaces” between business executives and architects. On the other hand, Standards and Models are IT-facing EA artifacts. They are purely technical, highly detailed and use IT-specific terminology. The purpose of these EA artifacts is to provide an actionable guidance for rank-and-file IT specialists. Essentially, Standards and Models serve as “interfaces” between architects and project teams.

From the perspective of these four types of EA artifacts, EA practice can be conceptualized as a set of three main EA-related processes: Decision-Making, Architecting and Implementation. Decision-Making is a process where top managers and architects collaboratively decide on how a company should operate and where the IT investments should go. Principles and Visions facilitate their communication and reflect the resultant strategic direction agreed by business and IT. Architecting is a process where architects translate the agreed strategic direction embodied in Principles and Visions into more specific plans actionable for project teams. Standards and Models are produced as an outcome of this process. Implementation is a process where project teams supervised by architects realize the IT systems required by business. Standards and Models are used as reference materials by project teams guiding their delivery efforts.

This “one minute” conceptualization of EA and EA practice is shown on Figure 1.



**Figure 1. One Minute Enterprise Architecture**

“One Minute Enterprise Architecture” is arguably the simplest possible way to explain the notion of EA as well as the general mechanism of EA practice. Regardless of its apparent simplicity, this conceptualization is evidence-based, comprehensive and powerful because it clearly and realistically describes the relationship between all the essential documents, people and processes constituting a successful EA practice in real organizations.

## References

- <sup>1</sup> TOGAF. 2011. "TOGAF Version 9.1," G116, The Open Group.
- <sup>2</sup> Sowa, J.F., and Zachman, J.A. 1992. "Extending and Formalizing the Framework for Information Systems Architecture," *IBM Systems Journal* (31:3), pp. 590-616.
- <sup>3</sup> Kotusev, S. 2016. "Enterprise Architecture Is Not TOGAF." Retrieved 21 January, 2016, from <http://www.bcs.org/content/conWebDoc/55547>
- <sup>4</sup> Kotusev, S. 2016. "The Critical Scrutiny of TOGAF." Retrieved 15 April, 2016, from <http://www.bcs.org/content/conWebDoc/55892>
- <sup>5</sup> TOGAF. 2016. "TOGAF Users by Market Sector." Retrieved 23 June, 2016, from <http://web.archive.org/web/20151121161238/http://www.opengroup.org/togaf/users-by-market-sector>