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Abstract

Several global corporations have encountered various changes, such as the progress of new technologies, globalization, shifts in customer needs, and new business models. Significant changes in cutting-edge IT technology owing to recent developments in Cloud computing, Mobile IT and Digital IT, in particular, have emerged as new trends in information technology. Enterprise Architecture (EA) is effective because it contributes to the design of such large integrated systems, which face a major technical challenge toward the era of Cloud/Mobile IT/Digital IT. EA encompasses all enterprise artifacts, such as business, organization, applications, data, and infrastructure, for establishing current architecture visibility and future architecture/roadmap. EA and Architecture Board should accept change in ways that adequately consider the emerging new paradigms and requirements that affect EA such as enterprise Mobile IT/Cloud computing.

In this research, we propose the desirable Architecture Board scheme that can solve the problems existing in Digital Transformation and should meet with IT strategy promoting Cloud/Mobile IT/Digital IT based on suggestions in prior research.

This research will aim to investigate solutions incorporated by Architecture Board in the global healthcare enterprise (GHE) for mitigating architecture risks, where the abovementioned Architecture Board was built and practiced as the case study of related up-to-date EA toward the era of Digital IT. The authors look into this case study within a large scale GHE, where they formed and started the Architecture Board. In the global Architecture Board, all new IS/IT project’s architecture designs were reviewed and action items for next steps were raised by architects and top managements and PMO members. After that, they defined risks connected to each action item and considered solutions to mitigate those risks.

The distribution of solutions to mitigate risks from different categories across the architecture domains in Enterprise Architecture will be revealed, covering applications and technologies using the Cloud/Mobile IT/Digital IT. An in-depth analysis of this distribution can act as practical guidance of Architecture Board practices for companies that consider starting up Architecture Board in Enterprise Architecture aligned with IT strategy covering Digital IT related solutions.