The COBIT 5 Visualization Prototype

A Visualization Approach for Reducing the Perceived Complexity of COBIT 5

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COBIT 5 is positioned in the market as a de facto standard for enterprise governance of IT. Relevant literature and management experience, however, indicates that the adoption of the framework is challenging due to its perceived complexity.

We present a software prototype aiming to promote the understanding of COBIT 5’s components and their relationships by means of information visualization, thus facilitating its usage and adoption in scientific and practical contexts. The evaluation of our artifact is based on two key measures: (1) the perceived information retrieval and completeness of extracted information and (2) the number of mouse clicks to identify the essential components of the framework.

Data Presentation with the COBIT 5 Visualization Prototype: Examples

Research Goals:

- COBIT 5 is positioned in the market as a de facto standard for enterprise governance of IT. Relevant literature and management experience, however, indicates that the adoption of the framework is challenging due to its perceived complexity.

- We present a software prototype aiming to promote the understanding of COBIT 5’s components and their relationships by means of information visualization, thus facilitating its usage and adoption in scientific and practical contexts. The evaluation of our artifact is based on two key measures: (1) the perceived information retrieval and completeness of extracted information and (2) the number of mouse clicks to identify the essential components of the framework.

Specifically, we address the difficulty of the implementation and transformation of existing environments, which already have implemented COBIT 5. The potential of our idea and its implementation was approved by experienced network members, from academia and practice, of the institutions involved in this project.

It has to be noted that comparable approaches on visualizations of the COBIT 5 knowledge base have not been made yet. A confrontation was obtained by direct correspondence with ISACA. In conclusion, our artifact and its instantiation can be truly considered a novelty and highly innovative from a practical point of view.

Key References:


