

Development of SEBoK v. 1.7

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This version of the SEBoK was released 27th October 2016. This is a minor release of the SEBoK which includes updates to SEBoK Part: 1 SEBoK Introduction, 4 Foundations of Systems Engineering, 5 Enabling Systems Engineering, 6 Related Disciplines, 7 SE Implementation Examples.



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Content and Feature Updates for v. 1.7

This section provides a summary of changes for SEBoK v1.7. See letter from the editor for a wider discussion of the changes and future plans.

This is a minor update, that features a new Healthcare SE Knowledge Area (KA) in Part 4: Applications of Systems Engineering introducing four new articles on healthcare, Overview of the Healthcare Sector, Systems Engineering in Healthcare Delivery, Systems Biology, Lean in Healthcare.

The focus on MBSE has also been expanded with two new articles, an MBSE case study added to Part 7 and an article describing the use of SysML for modelling Systems Engineering Core Concepts. Part 7 has been expanded with an additional case study on

the Northwest Hydro System. The article on Technical Leadership in Part 5 has been updated with new material, and Part 6 has also seen major updates of the Reliability, Availability, and Maintainability article as well as the System Resilience (formerly "Resilience Engineering") article.

Finally, work has been done on describing the organization of knowledge within the SEBoK with the aim of providing readers with better guidance through the SEBoK structure. The Structure of the SEBoK has been update to provide a better overview of the SEBoK and a simplified version of the central model created for the SEBoK structure has been added to the SEBoK main page and to the introductions of each individual part of the SEBoK.

SEBoK v. 1.7 Authors

Editors (in bold) and Authors who contributed materials specifically to the v. 1.7 products are listed in Table 1, below

Table 1. SEBoK v. 1.7 Authors. (SEBoK Original)

SEBoK Part	Editors and Authors
Part 1	Sanford Friedenthal (USA), Rick Adcock, Cranfield University (UK), John Watson (USA)
Part 4	Nicole Hutchison (USA), Chris Unger (USA), Brigitte Daniel Allegro (France), Robert J. Malins (USA), INCOSE Healthcare Working Group
Part 5	Tim Ferris , Cranfield University (UK), Rupert England (UK)
Part 6	Alice Squires , <i>Washington State University</i> (USA), Paul Phister (USA), Myron J. Hecht (USA) John Britis (USA)
Part 7	Dick Fairley (USA), Steve Mitchell (USA)

SEBoK v. 1.7 Editors

The Editorial Board for v. 1.7 is listed in Tables 2, 3, and 4 below.

Editorial Board

The SEBoK Editorial Board is chaired by an Editor in Chief, supported by a group of Associate Editors.

Table 2. SEBoK v. 1.7 Leadership. (SEBoK Original)

BKCASE Editor in Chief



Richard D. Adcock
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Responsible for the appointment of SEBoK Editors and for the overall content and coherence of the SEBoK.

Each Editor has his/her area(s) of responsibility, or shared responsibility, highlighted in the table below.

Table 3. SEBoK v. 1.7 Associate Editors. (SEBoK Original)

SEBoK Part 1 SEBoK Introduction

Ariela Sofer

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The Assistant Editors provide general editorial support across all topics. They assist both with content improvement and production issues.

Table 4. SEBoK v. 1.7 Assistant Editors. (SEBoK Original)

BKCASE Assistant Editors

Claus Ballegaard Nielsen,

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