

SBA / SeBA

- Implementing the Inevitable -

William F. Waite

The AEgis Technologies Group Inc
6703 Odyssey Drive
Huntsville, AL 35806
256.922.0802
BWaite@AEgisTG.com

David H. Smith

Fraser-Nash Consultancies, Ltd
Dorking Business Park
Dorking, Surrey, RH4 1HJ, UK
d.smith@fnc.co.uk

Keywords: SBA, SeBA, synthetic environments, systems engineering, distributed collaborative engineering, life-cycle management, simulation technology, simulation business practice, simulation based acquisition, synthetic environments based acquisition, simulation based enterprise

ABSTRACT: *The recent maturation of simulation technology together with its relative cost-effectiveness and ubiquity of application is precipitating a new form of systems-life-cycle business practice – namely Simulation Based Acquisition (SBA) / Synthetic environment Based Acquisition (SeBA). This practice involves the intimate and deliberate use of simulation and associated synthetic environments throughout the objective system life-cycle. SBA / SeBA is characterized by forms of distributed, collaborative enterprise among stakeholders which heretofore have been impossible and which hereafter will become commonplace. In this paper, we analyze the simulation technologies, simulation practices, and modeling and simulation industry business operational environment, which make SBA / SeBA practically possible and virtually inevitable.*