Annexure - I

SERVICE ORIENTED ARCHITECTURE MATURITY MODEL

A consortium of vendors led by Progress-Sonic 108 Software has developed the SOA MM, which is explicitly based on CMMI 109. SOA MM aims to provide IT decision makers with "a simple framework for benchmarking the strategic value of their SOA implementation, and a model for visualizing future success."

Model Basics:

Modelling itself after CMMI’s maturity levels, SOA MM defines five levels of maturity with respect to SOA adoption. At each level, the model identifies progressive business benefits that the organization will be able to realize. As Exhibit 8.3 illustrates, the five maturity levels and key business impacts are:

Figure on the next page presents Progress-Sonic’s SOA MM defines five levels of maturity, modelled after the CMMI.

Level 1: Initial services (functionality). Deploy simple services as a part of research and development and/or pilot projects. Also define initial ROI measurement criteria and define organizational needs for SOA.

Level 2: Architected services (cost effectiveness). Design and implement an SOA infrastructure based on standards and planned reuse. Establish architectural leadership and identify SOA informational needs of the organization.

108 For more details of Progress-Sonic’s SOA MM, see the web site given: www.sonicsoftware.com/solutions/service_oriented_architecture/soa_maturity_model.

109 The Software Engineering Institute (SEI) of Carnegie Mellon University grappled with that issue. The output of their work is famously known as the Capability Maturity Model Integration (CMMI). The model captures the way a business becomes increasingly process oriented. Although the model was originally designed for the software development industry, it is generally applicable to any business.

Level 4: Measured business services (transformation). Transform the organization from a reactive approach to solving business problems to a real-time, process-centric business. Establish service performance criteria and associated monitoring infrastructure.

Level 5: Optimized business services (optimization). Continuously improve and refine the organization and associated technology infrastructure. Proactively address business needs and facilitate future strategic initiatives.

In addition to identifying the maturity of SOA adoption and the associated business benefits, the model also maps scope, technical success factors, organization success factors, relevant standards, key goals, and key practices at each maturity level.