UPMS – UML Profile and Metamodel for Services – An Emerging Standard

Chief Scientist
Arne J. Berre,
SINTEF, Norway

ABSTRACT:

UPMS is an emerging standard from OMG (Object Management Group) that includes both a UML profile (SOA-Pro) and a metamodel for modeling of service-oriented architectures. The approach supports both top down (synergistic) and bottom up (opportunistic) modeling (middle-out), and utilizes UML collaboration diagrams and UML 2.0 component diagrams with a new concept of service interfaces. It is also linked into a business modeling framework with business process modeling (BPMN) and goal modeling (BMM). UPMS provides a foundation for modeling of SHA (Service-oriented Heterogeneous Architectures) including support for P2P, Grid, Agents and semantic services, which is being addressed in the European SHAPE project.