

Hallal, H., Petrenko, A., Boroday, S. and A. Ulrich. "Towards a UML Profile for Trace Analysis of Distributed Systems" In *Proceedings of the 2005 Telelogic Americas User Group Conference*. Los Angeles, CA, USA, October 2005.

**Abstract**

UML concepts and tools are increasingly applied in several areas of software engineering. The recent additions in UML 2.0 and the supporting tools, especially Tau G2, open the door even for wider applicability of these concepts and tools in areas like distributed system development. In this paper, we report on the ongoing work to define a UML profile in Tau G2 for the Trace Analysis of Distributed Systems. The proposed profile is based on the existing Formal Trace Analysis Framework, which uses traces of distributed systems to produce formal models (Currently in SDL) approximating the behavior of the system under test and allows the verification of the resulting models against properties specified in the GOAL language of ObjectGEODE. We believe that the Trace Analysis (TA) UML profile would allow the users of the trace analysis framework to benefit from the variety of modeling tools available in UML.