

Model-Driven Embedded Systems Design Environment for the Industrial Automation Sector

Thomas Strasser
Robotics and Adaptive Systems
PROFACTOR GmbH
Im Stadtgut A2
4407 Steyr-Gleink, Austria
thomas.stasser@profactor.at

Christoph Sünder
Automation and Control Institute (ACIN)
Vienna University of Technology
Gusshausstraße 27-29/376
1040 Vienna, Austria
suender@acin.tuwien.ac.at

Antonio Valentini
O3NEIDA Europe ASBL
Rue de L'Eglise 42
1150 Bruxelles, Belgium
antoniovalentini@oooneida.org

Abstract—The aim of this paper is to describe a model-driven embedded systems design approach which is applied to Industrial Automation and Control Systems (IACS). Therefore, an overview on existing model-driven approaches is given and their applicability for IACS is discussed. The special requirements of the industrial automation sector are taken into account by a novel architecture, utilizing existing model-driven techniques. This approach is the basis for the FP7 research project MEDEIA.