

CoDA—A Model-Based Platform to Deal with the Inherent Complexity of Automation Systems Development

Juan Navas, Patrick Herbert and Gilles Boussaroque

Abstract Automation Systems in AREVA are highly versatile, often reactive, systems that provide information treatment and control tasks to nuclear industry processes. These systems are inherently complex, as they involve many interconnected elements which behavior is not always well understood or predictable. Furthermore, they can also be considered as complex regarding their development process, as they demand a strong involvement of several stakeholders. The CoDA method and platform proposes a set of open and interoperable tools addressing Automation Systems' inputs Analysis, Design, Implementation and Verification and Validation activities. The integrated method and tools reduce time spent on impact analysis and provide proof of the proper consideration of requirements. This poster details the main propositions and results of the deployment of the CoDA platform in AREVA.

J. Navas (✉)

AREVA NP SAS, 1 Place Jean Millier, 92400 Courbevoie, France
e-mail: juan.navas@areva.com

P. Herbert

BP38 25 Avenue de Tourville, 50120 Equerdreville, France
e-mail: patrick.herbert@areva.com

G. Boussaroque

Euriware—Capgemini, 1 Place des Frères Montgolfier, 78280 Guyancourt, France
e-mail: gilles.boussaroque@euriware.fr