

# **SystemC AMS Day 2011**

*Industry Adoption of the SystemC AMS Standard*

BLOCK 4: SYSTEMC AMS IN WIRELESS AND WIRED COMMUNICATION SEMICONDUCTOR INDUSTRY

## **SystemC/-AMS System-level Model of a Near Field Communication (NFC) Radio Front-end**

*Bas Arts, NXP Semiconductors, The Netherlands*

This presentation will demonstrate the application of SystemC and SystemC AMS for a system level model of a Near Field Communication (NFC) radio front-end. The idea of this work is both to enable the system architect(s) to quickly explore several configurations of the radio front-end as well as to extend the digital virtual prototype environment (VPE) with realistic analog behavior for enhanced software development. We will graphically show the behavior of the model when fed with a real-life NFC lab trace waveform.