



The ECSI System Design Activities - Asian and European Industry Requirements Converge

Workshop organised at ASP-DAC 2007
January 23, 2007 – 13:00-17:00
Pacifico Yokohama, Yokohama, Japan - Room 419

The objective of the workshop is to present the ECSI activities in the area of **system design** to the Japanese and Asian system and SoC companies as well as research organizations.

ECSI's mission is to identify, develop and promote efficient methods, flows and standards for electronic systems design, with particular regards to the needs of the system-on-chip.

One of the ECSI's main objectives is to **enable the collaboration** on the cross-domain system design issues between member companies originating from different electronic industry sectors: system companies, SoC integrators, IP providers and EDA vendors. By its nature, ECSI gathers various points of views, requirements and expertise of its prominent members and aims at building activities that benefit from this intrinsic richness. In order to enable the collaboration between its members, ECSI offers an independent (i.e. non-commercially biased) platform where the community-wide reflection on the most challenging technical and business problems can be initiated, and where the parties can share the knowledge, exchange expertise and initiate ambitious R&D activities (consortia, study groups, projects).

ECSI supports the member organizations in development of system design related standards for specification and design representation within **OSCI** (SystemC TLM, Verification), **SPIRIT** (IP-XACT at TLM, debug features, ...), **OMG** (UML profiles for Embedded Systems), **OCP-IP** (OCP at TLM).

Several **R&D projects** are and have been conducted by ECSI to advance the system design knowledge. In the past SYDIC-Telecom project was one of the first R&D activities to define system design concepts and models. Currently these activities concern SoC integration methods, standards and interfaces (the SPRINT project) or high-level modeling and synthesis (ICODES).

ECSI established a **Study Group on UML for Embedded Systems and SoC Design** that gathers the experts from industry and academia to define new standards for the efficient use of UML in electronic systems development.

The workshop will give an overview of these activities and will enable the discussion on the potential cooperation between ECSI and Asian partners on the on the most important topics.

It is our strong believe that we all may achieve significant benefits from the cooperation on system design methods and related standards.

Preliminary Agenda

ECSI Overview – Who We Are?	20 min
ECSI System Design Vision	20 min
Q&A / Discussion	10 min
ECSI Research and Development Projects	40 min
Break	10 min
ECSI Study Group on UML for Embedded Systems / SoC Design	30 min
Discussion on potential common activities around SystemC, UML, design methods, projects and study groups	60 min

Presenter: **Dr Adam Morawiec, ECSI Director**