Memo

To:
From: Hans Manhaeve
CC:
Date: Saturday, 05 November 2005
Concerns: Boundary Scan Demystified – Training class description

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Preamble

The main objective of this training course/tutorial is to demystify the meaning of "Boundary Scan". Upon completion the student should have the proper understanding of what Boundary Scan means, what it's targets are, what it requires and what benefits are offered by implementing and using a Boundary Scan based Design for Test (DFT) strategy both at circuit and at system level.
It is however not the objective of the training class to provide a training on the use of particular Boundary Scan tools, however upon completion of the training class the student should have a better understanding on how to work with Boundary Scan tools and what benefits they can offer.

The "Boundary Scan – Demystified" is intended for Project Managers, Project -, Design -, and Test engineers.

Training class content

The training class will address the following topics.

Starting from a general introduction on the Theme of "Test and Design for Test", and reviewing different Design for Test approaches, the Boundary Scan topic will be introduced. It will then demystify and cover the basic elements of Boundary Scan:

- Where does it come from
- What problem does it solve
- What are the prerequisites
- How does it work
- What are its Applications
- What are the Implications on the design of an integrated-circuit device.

Next to that an overview of the Boundary Scan standards will be given, a review of the Boundary Scan Design Language (BSDL) as well as an overview of the software tools available to perform boundary-scan-based tests.

In order to improve the understanding, the training class will be supported by a number of demo's.

At the end of the training course/tutorial, the participant should have a clear insight in what Boundary Scan means, what the prerequisites are, how it works and how it can be used to test, to validate and to configure system designs.