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# Synopsys software checks 3G designs

**Richard Ball**

Synopsys has introduced Design Conformance Lab' software to verify the design of a 3G comms system.

The tool contains a reference design for a complete 3G wireless system, conforming to the TD-SCDMA standard. Users replace models in the reference design with their own code and then simulate to prove the design conforms to the standard.

"This is ensuring developments in the wireless domain are standards compliant," said Gerd Ascheid, senior director for wireless and broadband comms at Synopsys.

Based around the firm's Co-Centric System Studio, the tool includes a physical layer test suite to check blocks such as turbo coders, equalisers, rake fingers and Viterbi decoders.

The suite can simulate an entire basestation and handset, along with the uplink and downlink, including the effects of fading on the air interface. During the coming few months, Synopsys will roll out other versions of the Lab, covering GSM, UMTS and GPRS standards. The main market for TD-SCDMA is China.

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