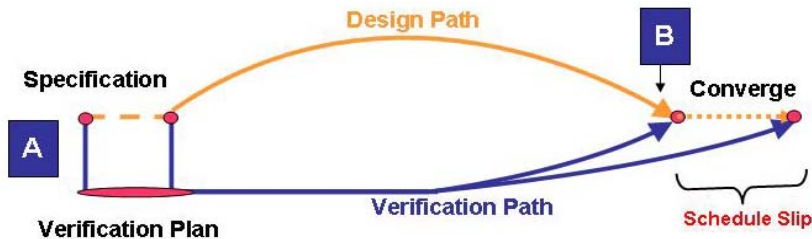


Mentor Consulting Verification Services Overview

D A T A S H E E T



Mentor Consulting gets customers from Point A to Point B faster than anyone else

Unlike other EDA consulting services or third party consultants, Mentor Consulting's highly experienced team offers customized solutions and proven, structured processes to ensure verification projects planned (A) and delivered on time and to specification (B). In addition, customer engineering teams gain the knowledge transfer necessary for a smooth transition to new technologies. This structured consulting approach saves on both cost and effort, and mitigates the risk of not meeting the project schedule.

Verification Service Offerings

- Verification Planning and Management (VP&M)
- Migration from propriety HVL to SystemVerilog and Open Verification Methodology (OVM)
- Deployment of industry leading verification methodologies: OVM, ABV, CDV, VP&M, and DO-254
- VIP/Testbench Architecture and Implementation
- Flow Definition and Implementation

Key Customer Benefits

- Projects delivered faster, on schedule and to spec
- Increased probability of first pass success
- Knowledge transfer of technologies and methodologies
- Source of expertise in Mentor Graphics verification technologies, including Questa, O-In, Veloce, Seamless, InFact, MVC, and TestKompress

Avoiding the Obstacles of Verification Management

To design engineers, verification can be the path of most resistance. Ever more complex designs have forced design teams into having to deal with ongoing processes, such as rigorous verification planning, test bench architecture, advanced methodologies, new tools and languages, and assertion-based and coverage-driven verification. Many times these processes can become chronic issues, leading teams down false paths and into design obstacles that threaten quality and schedules.

Mentor Consulting Verification Services offers highly experienced, solution-driven consultants who can make a big difference in the effectiveness of a team's ability to manage the verification process. Working side by side with customers on all aspects of verification and on real projects, Mentor Consulting offers customized solutions and structured processes that ensure the project goes from planning to delivery with much more speed and quality, and with less cost and effort. The goal is to bring projects in on time and to spec, and with greater probability of first-pass success.

Customized Solutions for Customer Success

Mentor Consulting Verification Services consultants approach each project with the commitment to deliver the most effective application of verification technology appropriate to the design. Verification consulting services begins with a three-step process:

- 1. Discovery.** The discovery session enables Mentor Consulting to learn the customer processes, design and verification issues, and customer goals.
- 2. Proposal.** The proposal clarifies the customer's current situation, what is desired as an end result, and provides a customized solution of services and technologies designed to reach that goal in the fastest, most cost-effective manner.
- 3. Customized solution.** Mentor Consulting leverages proven, structured processes developed through years of experience working on real design projects. Solutions range from short term, such as a JumpStart engagement, to long term engagements. Mentor Consulting is committed to the knowledge transfer of technologies and methodologies; it is a point of emphasis throughout every engagement.

JumpStart programs provide an expert verification consultant to work alongside a customer team, utilizing a specific project to transfer knowledge that will benefit the immediate project and others that follow. A JumpStart program begins with proven workshops to understand the fundamentals of the involved technology. Next the customer is guided through the methodology, to ensure a smooth work-flow transition. The consultant then provides assistance and oversight during the project to put everything into practice and demonstrate the benefits.

Long-Term Deployment Services address the needs of companies facing schedule concerns, or limits on resources or expertise that prevent adoption of the latest technologies and methodologies. Mentor Consulting can become a more integral part of a company's verification team, working on projects alongside the staff and incorporating new methods at times that are appropriate to business needs. Consultants, expert in advanced methodologies and Mentor Graphics tools, become vital to the continual improvement process, helping engineers to more quickly transition to new technologies that meet the demands of ever more complex designs.

For efficient delivery and quicker ramp-up to new technologies, Mentor Consulting has developed **Consulting Modules** that support each engagement, and ensure customer objectives and goals are met efficiently. Consulting Modules are "plug and play" to allow content appropriate to the engagement to be selected and inserted. Each includes a combination of lectures, exercises and practical labs. Participants are provided with a workbook that can be used as a reference. Consulting Modules have proven to efficiently deliver key information within project staffing constraints and deadlines. Module materials assume the use of the Mentor Graphics Questa™ verification platform for practical lab work, but can be adapted for other verification software on request.

Every consulting engagement incorporates **Knowledge Transfer** as a key component of the process. Mentor Consulting is committed to ensuring that customers receive the skills and information needed to plan, execute and manage future projects, and through the hands-on experience of the engagement, be able to continue on the path of best practices.

Mentor Consulting Verification Services helps companies meet their design goals by providing experienced consultants and proven solutions. The goal is the same as the customer's goal: to bring designs in on time and to spec in ways that are faster, better and at less cost.

Case Studies

Migration to SystemVerilog

A design group within a very large IDM was no longer able to effectively maintain a Specman 'e' code base due to limits on their resources. However, their current project could not be detained from meeting its looming deadline.

The design group called on Mentor Consulting to evaluate their situation. Consultants determined the best solution was to migrate their testbench from 'e' to SystemVerilog Assertion Based Verification (ABV). Despite the aggressive schedule and risk constraints, the Mentor Consulting Verification Services team deployed a successful migration to SystemVerilog AVB that met all the original design requirements, including maintainability, performance and reuse. The project came in on schedule and to specification.

Verification and Knowledge Transfer From Start to Finish

A chip design start-up company needed experienced engineers to manage the verification process on a new design. With resources limited and the project falling behind schedule, the company turned to Mentor Consulting Verification Services for assistance.

Mentor Consulting coached the staff engineers through the entire verification process, from planning to coverage closure. The knowledge transfer from consultant to engineer gave the company a more experienced staff, and the engineers were able to deliver a fully verified design using the most advanced Mentor Graphics technologies.

About Mentor Consulting

Mentor Consulting provides customers with excellence and expertise in electronic design automation infrastructure and methodology. It is the only service partner in the industry that invests in the transfer of knowledge to its customers to ensure a smooth deployment and integration of new tools and methods. Mentor Consulting solutions for silicon yield enhancement, verification, cabling, and data management are engaged worldwide by forward-looking electronics companies to optimize design productivity and advance adoption of the latest industry design best practices. For more information, contact mentor_consulting@mentor.com or visit www.mentor.com/consulting.

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Corporate Headquarters
Mentor Graphics Corporation
8005 SW Boeckman Road
Wilsonville, OR 97070-7777
Phone: 503-685-7000

Silicon Valley
Mentor Graphics Corporation
1001 Ridder Park Drive
San Jose, CA 95131 USA
Phone: 408-436-1500
Fax: 408-436-1501

Europe
Mentor Graphics Corporation
Arnulfstrasse 20180634
Munich Germany
Phone: +49.89.57096.0
Fax: +49.89.57096.4000

Pacific Rim
Mentor Graphics (Taiwan)
Room 1603, 16F
International Trade Building
No. 333, Section 1, Keelung Road
Taipei, Taiwan, ROC
Phone: 886-2-87252000
Fax: 886-2-27576027

Japan
Mentor Graphics Japan Co., Ltd.
Gotenyama Hills
7-35, Kita-Shinagawa 4-chome
Shinagawa-Ku, Tokyo 140
Japan
Phone: 81-3-5488-3030
Fax: 81-3-5488-3021

Sales and Product Information
Phone: 800-547-3000
503-685-8000

North American Support Center
Phone: 800-547-4303

