

# Verification Consulting Services overview

## Benefits

- SystemVerilog/UVM Consulting and methodology services
  - Promote increased productivity and efficiency for functional verification
  - Based on functional verification methodology that has been proven on hundreds of designs
- Turnkey Verification
  - Access to a full range of verification technologies including Simulation, Formal, and Emulation
  - Continuous insight into verification progress
  - Delivery by Siemens verification team
- Team Collaboration IP
  - Provides an easy path to reuse
  - Helps gain visibility into the project status
- Emulation Services
  - Optimize emulation performance
  - Provides complete functional coverage and improved visibility
  - Enables reuse of emulation methods and IP for future designs

Our verification services combine proven implementation experience with Siemens advanced verification technologies to address today's verification challenges.

## SystemVerilog/UVM

For customers employing a SystemVerilog/UVM flow, Siemens provides these offerings:

## SystemVerilog (SV)/UVM

**Methodology Services** – provides customers with an implementation plan and training on production-proven methodologies, including flows, test-bench development, formal analysis, and coverage closure.

## Turnkey Functional Verification

– provides customers with timely development & execution of their verification plans, managed and delivered by world-class Siemens verification specialists.

## Team Collaboration IP

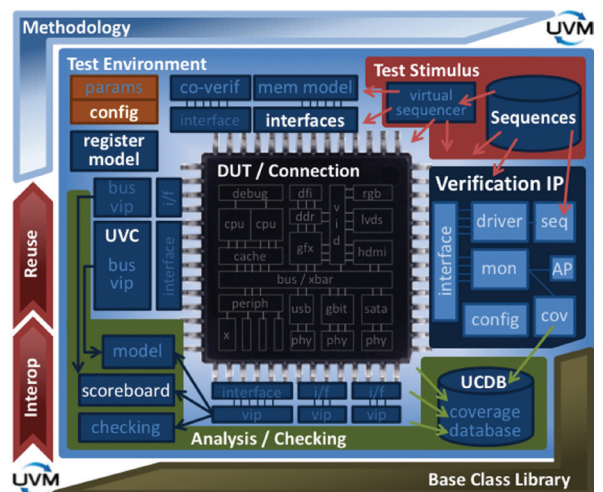
– enhances efficiency, productivity, and transparency of SV/UVM offerings. This service includes: project dashboards and build/compile scripts, all based on the UVM Framework.

## Emulation

Emulation services make hardware-assisted verification and deployment accessible to teams that might not have emulation expertise or infrastructure. Siemens offers these emulation services:

**Emulation Methodology Services** – provides expert consulting and knowledge transfer of best practices for using Veloce, including design compilation, environment support, implementing tests, and optimization.

**Emulation Hosting** – offers space and support for customer-owned Veloce emulators. Hosting includes hardware and software support, extended bandwidth for peak usage, and secure remote connectivity.



# Verification Consulting Services overview

## Benefits *continued*

- Emulation Hosting
  - Enables a secure location for emulation hardware
  - Removes facility issues as a barrier to acquiring emulation hardware
- Emulation-as-a-Service
  - No capital equipment or infrastructure cost
  - Design/Test Environment made emulation-ready by a Siemens team
  - Cost-efficient, reliable access to cloud-based emulation
- Emulation Xactor IP
  - Reduces time-to-emulation for designs with common protocols
- FuSa Methodology
  - Reduces risk with fewer product failures
  - Provides roadmap compliance to FuSa standards
- Fault Campaigns-as-a-Service
  - Methodology and execution guaranteed by Siemens
  - Reduces need for in-house expertise and tool knowledge

**Emulation-as-a-Service** – provides Siemens support and implementation of an emulation-ready customer design. This service includes secure access to Veloce hardware, design compilation, training and support on best practices, and an emulation environment for derivative designs.

**Emulation Xactor IP** – provides the development, enhancement, and integration support for protocol-based IP for use in emulation-based verification.

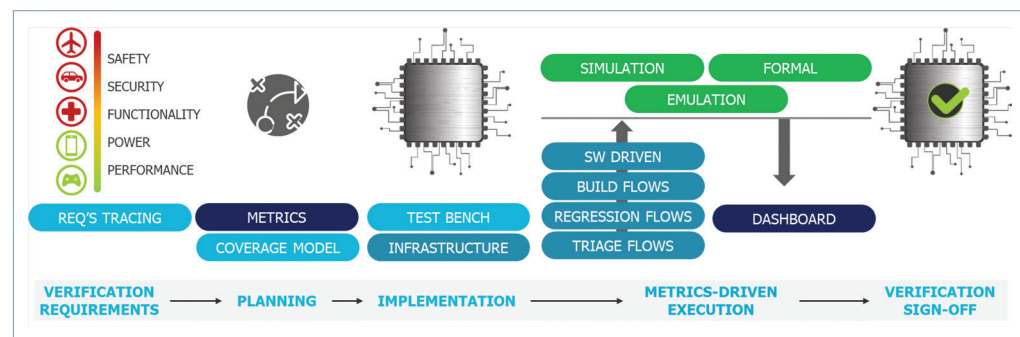
## Functional Safety (FuSa)

Functional safety services help customers reduce risk associated with product failures by enabling and supporting life-cycle activities for safety standards like DO-254, ISO 26262, Mil-Std-883, and IEEE Std.1012. Siemens provides these functional safety services:

**FuSa Methodology** – provides advice and assistance for building lifecycle process that are compliant with the chosen safety standard. Siemens ISO-accredited tools (that include Austemper and Questa) and flows are employed to perform elements such as lifecycle gap analysis, requirements management, failure rate metrics, and virtualization.

**Fault Campaigns-as-a-Service** – provides expert validation of hardware metrics for safety-critical designs, executed by Siemens, using the breadth of Siemens EDA verification capabilities, such as Questa for simulation and formal verification, and Veloce for emulation.

*Your account representative can help you construct a Services plan drawing from one or multiple EDA Services,*



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