



YOGITECH's eVerification Components (eVCs) are scalable, configurable, plug-and-play, pre-verified and extensible verification environments that can be readily integrated into your design. They maintain full compatibility with Cadence's Specman Elite test bench automation tool providing a solid basis in order to realize a complete, reliable and re-usable verification strategy increasing the verification team's productivity and the product's quality. Being **YOGITECH** in the Openchoice Partnership, its eVCs are interoperable with further releases of Cadence's Specman Elite, avoiding eventual work misalignments between verification teams and projects. **YOGITECH's** proven protocol expertise assures a high reliability of its eVCs that are all eReuse Methodology (eRM) compliant. **YOGITECH's** eVCs are exhaustively documented and tested. Through YOSS (**YOGITECH's** online support service), the company provides online support, documentation downloads, FAQ, examples and enquiries in a timely manner.

OCP 2.1 eVC

OCP 2.1 eVC is the complete solution for the verification of OCP-based systems. It is adherent with the latest OCP 2.1 specifications and it includes all the advanced features such as multi-threading, bursts and tagging. The highest functional coverage is achieved by a complete built-in set of predefined coverage items. The eVC also embeds a powerful protocol-checker, fully compliant with OCP 2.1 specification.

OCP 2.1 eVC includes a database of OCP sequences and an extensive test suite covering most of the possible OCP scenarios. A self-test option is provided to run test cases on the eVC even without the simulator. OCP 2.1 eVC works with both Verilog, VHDL or SystemC DUT and with all HDL simulators supported by Specman Elite.

Yogitech is Sponsor Member of OCP-IP and plays a key role in the Functional Verification Working Group that defines the OCP compliance strategy. Both coverage items and protocol checks embedded in the OCP 2.1 eVC have been validated by this WG and this is the best guarantee for the high quality of OCP 2.1 eVC. Yogitech is actively involved in the Specification Working Group as well that defines the new spec releases.

Worldwide customers are using OCP 2.1 eVC in many verification environments both at module, subsystem and system level. This makes OCP 2.1 eVC the only reliable solution currently available on the market for the verification of OCP-based systems.

MAIN FEATURES

- Adherent to OCP 2.1 Specification. Multi-threading transactions fully supported. Burst models and new tagging mechanism fully supported.
- Protocol Checker fully compliant with OCP 2.1 Functional Coverage Measure.
- Built-in set of coverage items.
- Database of predefined OCP Sequences with different choices of randomisation (from deterministic to fully random).
- Reference burst sequences library.
- Configurable as Master/Slave (or Monitor only). Master can drive the full set of commands. Slave can also be configured as RAM.
- Self-Test option to run test cases on the OCP eVC without the need of a simulator.

DELIVERABLES

- Core Files. eVC Inner Layer encrypted. eVC Upper Layer fully configurable by the user.
- Support Files. Database of predefined OCP sequences. Sample and extensive tests covering basic functionality.
- Documentation. Comprehensive User Guide including Release Notes. FAQ.
- Add-On. RTLConfig2e. Configuration File Converter, parsing RTL Conf File from Core Creator and generating eVC Configuration File accordingly.
- Online Support Service. Fast bug fixing. General problem solving. Direct interaction with the product's development team.
- Training on demand.



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OCP 2.1 eVC

eVC Architecture

OCP 2.1 eVC provides much more than a simple BFM. It is a fully eRM verification component composed by master and slave OCP agents, able to generate and inject transactions or to respond to transaction requests according to OCP specifications.

The OCP 2.1 eVC slave agent can be configured also as a RAM. The basic transaction instance of the OCP 2.1 eVC comprises all the fields needed to model any kind of physical transaction on the OCP interface, functional parameters to emulate delays, latencies, etc.

OCP 2.1 eVC includes a monitor that logs all traffic information and collects items for test functional coverage. The embedded protocol checker is a runtime tool checking OCP rules of the current bus traffic. If some wrong conditions are detected during simulation, the checker prompts the user about the error and prints a message about the violation. These rules can be extended and customized by the user.

eVC Usage

OCP 2.1 eVC can be used to verify both module-level OCP interfaces (such as wrappers), OCP subsystems and in complex top-level verification environments with multiple OCP interconnect instances.

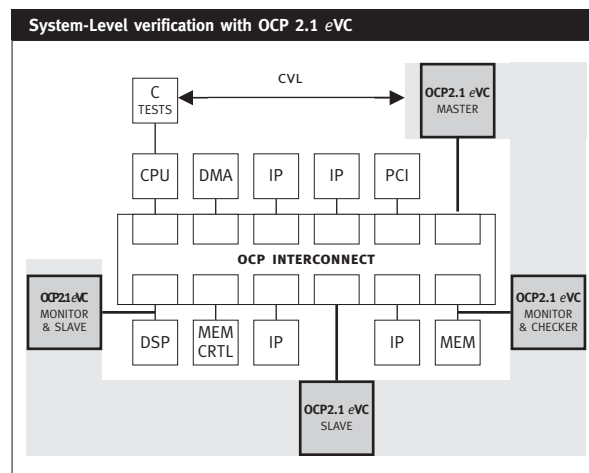
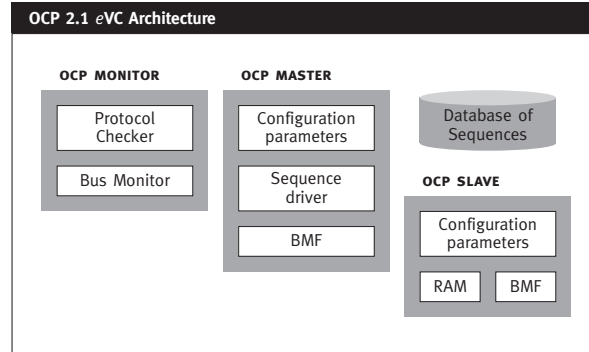
In fact, OCP 2.1 eVC is easily configurable due to its comprehensive top-level structure: OCP 2.1 eVC master and slave agents can be used to initiate and receive transactions at the different abstraction levels, the monitor and protocol checker can be used to verify the protocol compliance and to collect data for data logging and performance analysis.

All the verification components can be managed by a top-level sequence generator that generates and controls all the different possible verification scenarios: examples of such top-level environment are delivered together with the eVC.

OCP 2.1 eVC is interoperable with Sonics' solutions or OCP-IP's Core Creator. A tool called RTLConfigze can be provided with the eVC to convert from OCP's RTLConfig file syntax to the e-configuration files.

Licensing

Yogitech's eVCs are distributed with a simple floating license which allows for multiple eVCs instantiations. Each Specman Elite license requires a separate eVC licence.



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