

This brochure has three purposes. It peaks visitor's interest by offering a solution for beating the competition to market. It echos the corporate strategic messages by offering a leading-edge solution. It offers more information than on the web. The goal was to have visitors call Sales for full information. Drafted, edited, illustrated, and formatted the brochure. Qualis (www.qualis.com) is a verification IP, consulting, and training firm.

Qualis SONET eVC

Qualis Networking Verification Component Suite

Preliminary

Qualis Networking Verification Component Suite

Imagine a suite of building blocks that let you develop a complete verification environment more quickly and with less risk. Qualis™ e Verification Components (eVC™s) are exactly that. They are:

- **Configurable** - a single eVC implements all flavors of a protocol with complete control of all struct data fields
- **Interoperable** - eVCs stack to model complex communication systems
- **Flexible** - eVCs can be used at the module, ASIC and system level
- **Maintainable** - eVCs are structured to be easily understood with a standardized look and feel across the eVC family
- **Documented** - eVCs come with a complete User's Guide and numerous implementation examples
- **Supported** - eVC usage training, Specman Elite training and expert consulting are all provided by Qualis

Applications

- Broadband networking design stimulus and monitoring
- SONET frame generation (random or directed)
- Verification and functional coverage of SONET IPs

Overview

The Qualis SONET eVC saves you time in verifying your broadband SONET IP by integrating into your verification environment to verify that the various channels or data streams are being sent, received and processed correctly.

This eVC is developed from the ITU specification and incorporates many time saving features such as constraining random generation and self-checking.

The eVC can be configured to work with any frame structure and any level of the digital hierarchy.

Features

- Developed from ITU Specification
- Arbitrary frame structure
- Channelized and unchannelized frames
- Byte-interleaved multiplexing
- Pointer processing
- Positive, negative and new data payload justification
- B1, B2 and B3 parity generation, checking and corruption
- Scrambling
- Written in e language
- Random generation and self-checking capability
- Random or user-defined payload data (for example, ATM cell stream)



Functional Verification Support

This *eVC* series is designed to improve your productivity in building a random-based functional verification environment. Each physical interface unit has a buffered logical interface to decouple the generation and checking processes from the physical interface processes.

Each *eVC* comes with methods designed to be extended. These methods are invoked at strategic points in the generation, transmission, reception or monitoring processes. Each is invoked with all relevant information for the process, allowing the extension to record or modify the information. By extending these methods, you can further customize the functionality of the *eVC*s. They facilitate the implementation of functional coverage, the integration of the *eVC* in a more complex environment, and the synchronization of the various process with others.

Compatibility

Additional *eVC* modules will be available for specific broadband networking applications, including ATM over SONET.

Licensing

Simple one year floating license structure that allows multiple instantiations of the same *eVC* in one test environment. Each Specman Elite™ simulation run requires one *eVC* license.

More Information

Feel free to contact us with your questions at 888.644.9700, or +1.503.670.7200 or via email at info@qualis.com. You can also learn more about Qualis on the web at <http://www.qualis.com/>.

Support

Qualis *eVC*s are developed and supported by experts in reuse, verification and networking. These experts are available 24 hours a day via email at evc_support@qualis.com to answer all your questions about integrating Qualis *eVC*s into your test environment.

To facilitate the integration of the *eVC* into your environment, code examples showing typical usage in a test environment are included. Qualis also offers a one-day "Effective Integration of the SONET *eVC*". This course gives detailed examples of integrating and constraining the Qualis *eVC*.

If you need training in *e* or additional consulting experts, Qualis is prepared to help you in every step of your verification, from methodology development, language training, infrastructure development to testcase writing. Our job is to help you bring your product to market faster.

