CHIMERA

Network Impairment Emulator

OVERVIEW

Chimera is a network impairment emulator that makes it easy to introduce consistent, accurate, well-defined and repeatable impairments (e.g. packet manipulation, packet drop, latency and jitter) to traffic between DUTs in the lab. All rates from 10GE to 100GE are supported by a single 2-slot test module.
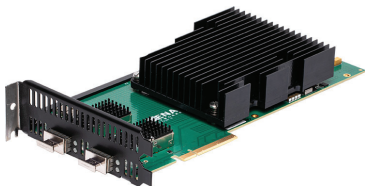
Chimera is ideal for NEMs who want to optimize Quality of Experience (QoE) for customers by ensuring equipment can handle acceptable levels of impairment. Service providers, enterprises, and government agencies can also use Chimera to validate Quality of Service (QoS) for voice, video, and data traffic being sent across their networks.

Chimera can be installed as a test module in a ValkyrieBay chassis for seamless integration with ValkyrieManager's traffic generator. This provides a simple way to impair traffic being generated by Valkyrie from within the same UI – a unique feature for Chimera. Or it is available in a compact chassis for use as a "standalone" solution for emulating impairment on traffic between 2 DUTs.

Chimera can also be controlled using ValkyrieCLI, a simple and easy to use command-line-interface scripting API making test automation easy and fast.

The result is a cost-effective and powerful network impairment emulator solution for benchmarking, stress testing/negative testing, "what-if" testing, and regression testing.

KEY FEATURES

- Industry's only fully integrated traffic generation & impairment solution (Valkyrie & Chimera)

- Multi-speed impairment – 10/25/40/50 & 100GE

- High port density - up to 8 ports for both 10 and 25GE

- No limits on port reservation

- Ease of use

- Free software (incl. ValkyrieManager and ValkyrieCLI scripting)

- Free tech support & training for product lifetime

HARDWARE

Chimera is available as a 2-slot test module for a ValkyrieBay chassis - the Val-C12-2400G. This option lets you add impairment to your existing ValkyrieBay and control it using your standard Valkyrie interface.
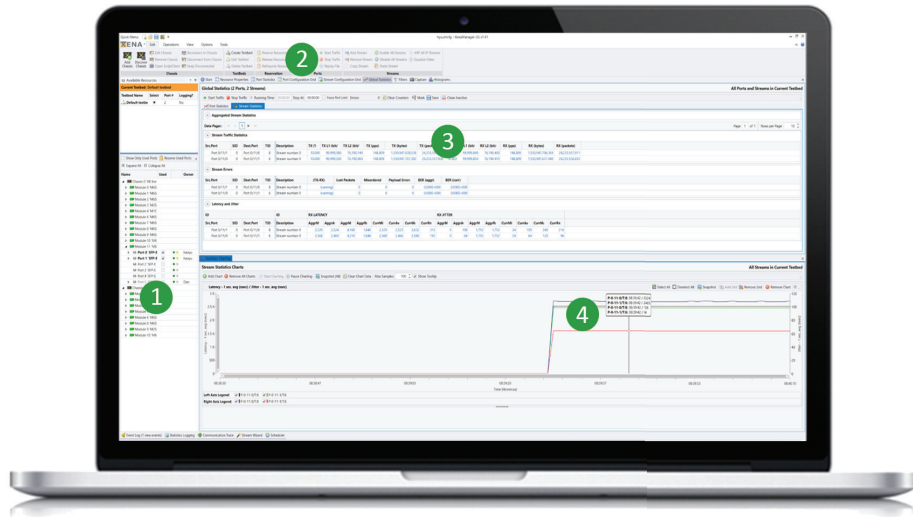
Chimera is also available as a standalone device in a quiet and compact 1U chassis to allow impairment of traffic from a 3rd party traffic generator.
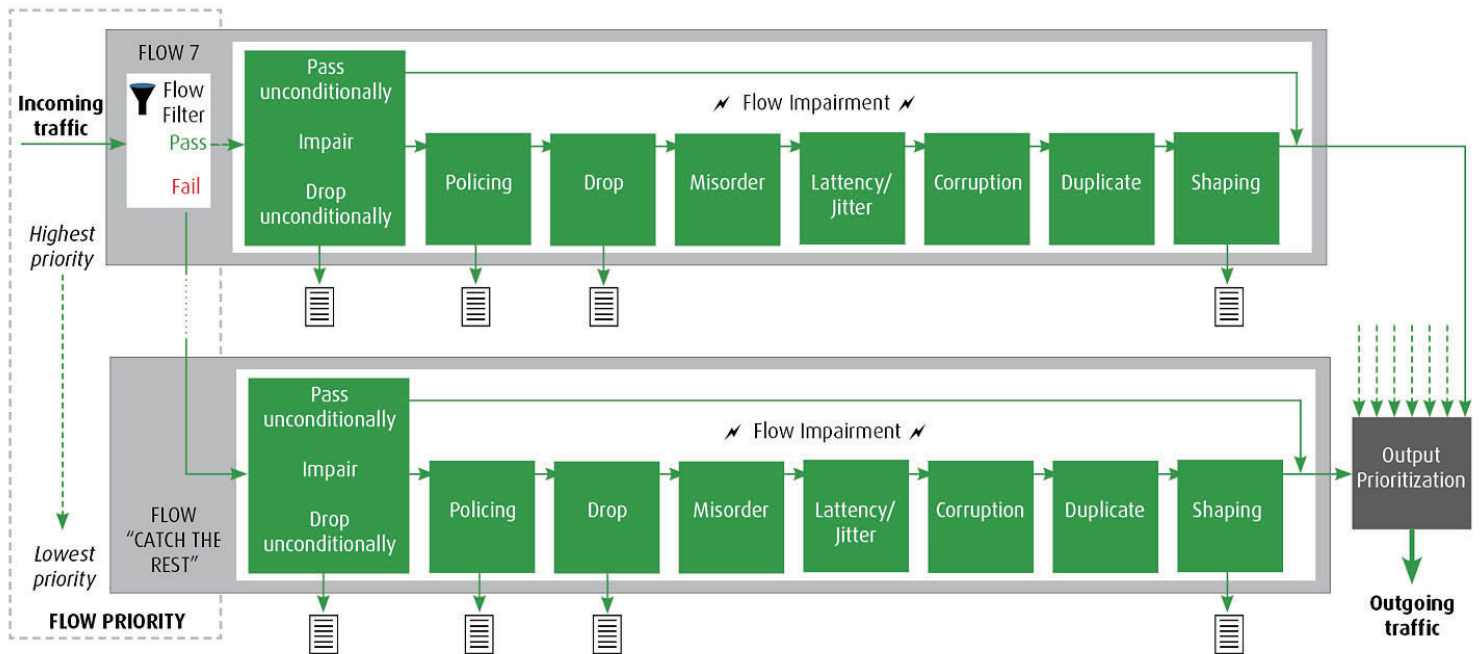
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SOFTWARE

Chimera's user-friendly UI is an extension of ValkyrieManager's UI:

1. Easy-to-use "tree" structure for managing test bed of chassis, modules and ports.
2. Top ribbon provides instant access to commonly used functions.
3. Color-coding and tool tips make the UI very intuitive.
4. Combined with Valkyrie traffic generator, the graphical elements help testers quickly scan results. Panels can be dragged free of main UI for extra convenience.

This diagram illustrates how the Chimera test module emulates impairment. Incoming traffic pass through 7 prioritized flow filters and matching packets are impaired as defined for that flow using UI or CLI. Unmatched packets are impaired as defined for the port default flow.

AUTOMATION

ValkyrieCLI is the best test automation tool in the industry. It is used across all Xena stateless platforms (Valkyrie, Vantage and Chimera). ValkyrieCLI supports multiple concurrent scripting sessions by different users in different locations. ValkyrieCLI is an easy to use command-line-interface (CLI) scripting API with full control of Chimera functions. Automation is easy and fast using the Xena Python Library. The CLI commands are the same across all port speeds.

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