

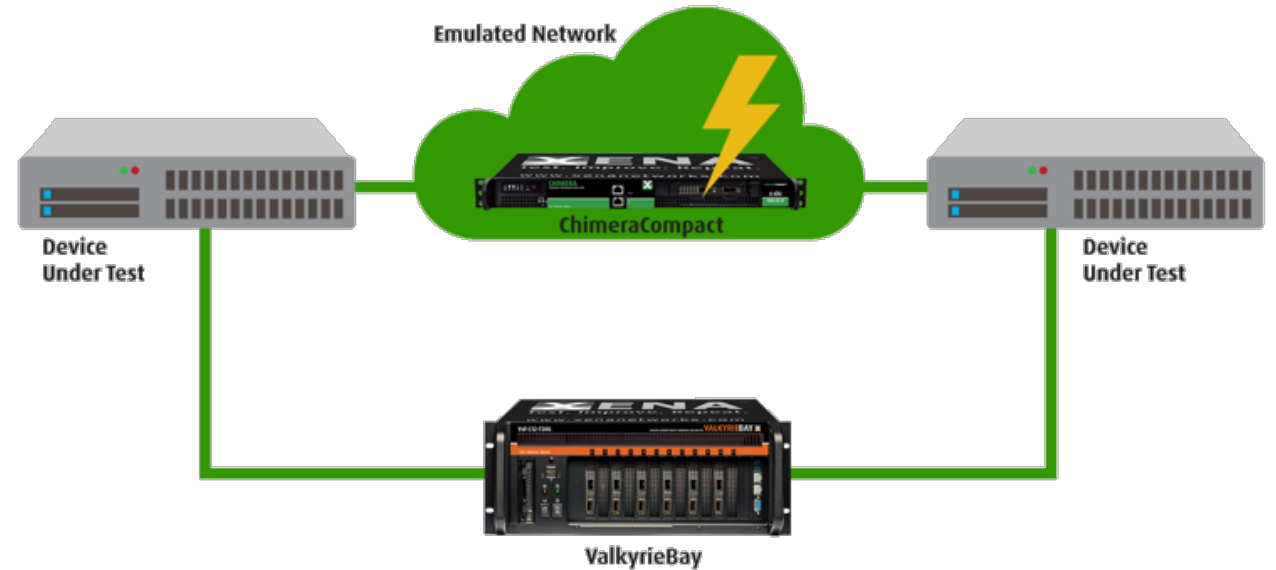
CHIMERA

Network Impairment Emulation

CHIMERA OVERVIEW

Chimera represents great value with these top features:

- True wire-speed impairment @ 100Gbps (plus 50 / 40 /25 & 10Gbps)
- Ease of use – Chimera is a stand-alone impairment tool that integrates seamlessly with Xena's Valkyrie traffic generator, letting you speed up your workflow by using the same SW to both generate and impair Ethernet traffic.
- Highest port density in the industry – plus you can reserve individual port-pairs without blocking access to the others
- Setting up custom impairment distributions is a breeze
- Chimera supports a broad range of impairments (latency/jitter, packet & port impairments, flexible distributions, BW shaping etc)
- Powerful, easy-to-use automation & scripting options
- A price point 50% below comparable hardware emulators



Chimera can function as a standalone traffic impairment emulator. Or it can be installed in a Valkyrie chassis to seamlessly add impairment to traffic (up to 100G) being generated by the other Valkyrie test modules.

HARDWARE

Two hardware options, both support impairment emulation at all rates from 10G to 100G via a single Chimera test module.

TEST MODULES :

Chimera is currently available as a 2-slot test module for a ValkyrieBay chassis, the Val-C12-2400G, where ValkyrieManager is used to emulate impairment as part of its standard user-interface.

Chi-100G-5S-2P tests 5 speeds: 100G, 50G, 40G, 25G and 10G

Chi-40G-2S-2P tests 2 speeds: 40G and 10G

STANDALONE CHASSIS:

ChimeraCompact is a standalone version of any of the Chimera test modules where the test module is installed in a quiet desktop-sized chassis.

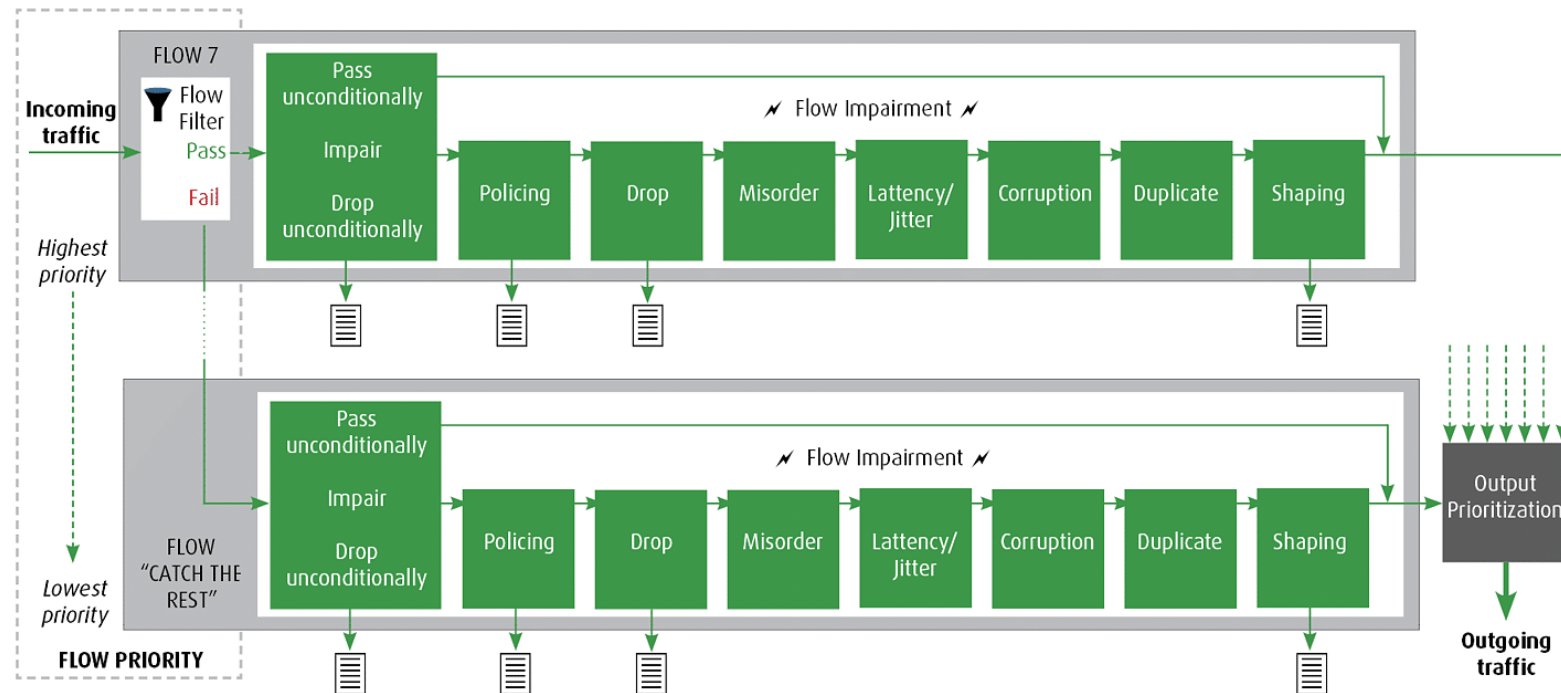


SOFTWARE: ValkyrieManager



Chimera in ValkyrieManager

When a Chimera test module is installed in a ValkyrieBay chassis, [ValkyrieManager](#) detects its presence and makes the Chimera's software options available for adding impairment. This makes it very easy for test engineers to emulate impairment via the same GUI they use for generating the stateless Ethernet traffic.



This diagram illustrates how the Chimera test module emulates impairment. Incoming traffic enters a flow filter and different types of impairment are then added (as defined in the UI), with each traffic flow being processed in a prioritized order.

SOFTWARE: ValkyrieCLI

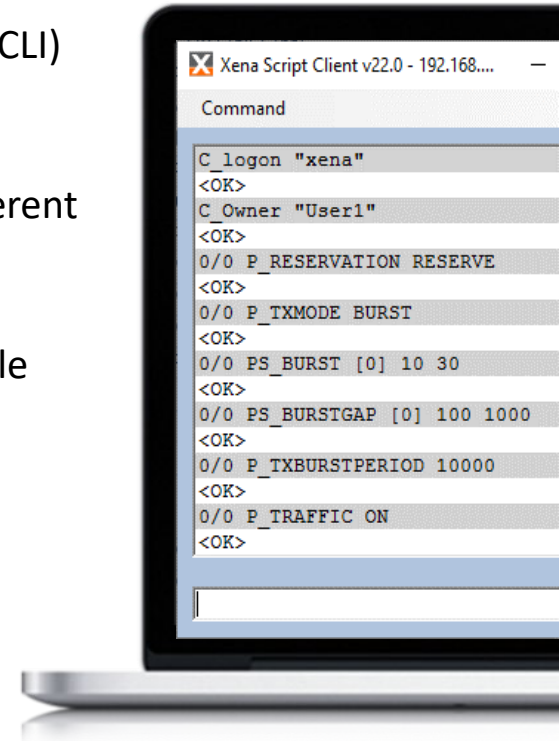


ValkyrieCLI is Xena's innovative and incredibly easy-to-use command-line-interface (CLI) scripting API with hundreds of scriptable parameters.

ValkyrieCLI supports multiple concurrent scripting sessions by different users in different locations.

ValkyrieCLI is a command-line-interface (CLI) scripting API with hundreds of scriptable parameters.

Any client platform can be used (e.g. Python, Tcl, Bash).



TYPES OF TESTS

PERFORMANCE TESTING

Performance testing focuses the performance of a DUT via parameters like maximum throughput, latency and jitter.

When performance testing includes analysis of how a DUT can send traffic through a network Chimera emulates realistic network conditions including impairments that are likely to occur when a signal passes through a network.

QOS AND SERVICE VALIDATION

Chimera offers network emulation for QoS and service validation testing. By adding latency, packet drop and other impairments the user can test that a system under test can maintain a high QoS and service quality guarantee despite difficult network conditions.

FUNCTIONAL TESTING

Functional testing verifies the basic functionality of the DUT and will depend on the DUT and the application.

Chimera provides a wide range of network emulation features for functional testing, including latency and other typical impairments.

TYPES OF TESTS

SOFTWARE APPLICATION TESTING

Software application testing can cover many parameters depending on the application. The testing can be done to verify the basic functionality of the software and to see how it performs under different network conditions. Chimera provides a wide range of network emulation features to emulate network conditions, including latency and other typical impairments.

SECURITY TESTING

Security testing is usually conducted during development to reveal how a DUT handles abnormal conditions.

Chimera makes it easy for users to apply all kinds of network conditions to analyze and verify the behavior DUT.



DOCUMENTATION

All the documentation about Chimera products:

| | | | |
|-----------------|----------------------------------|---|------------------------------------|
| Chimera | <u>Factsheet</u> | <u>Datasheet</u> | <u>User Manual</u> |
| ValkyrieManager | <u>Datasheet</u> | <u>Step by Step Guide</u> | <u>Webpage</u> |
| Scripting CLI | <u>Datasheet</u> | <u>Scripting Guide</u> | <u>Webpage</u> |
| Knowledge Base | | Application Notes | White Papers |



DOCUMENTATION

The Tolly Group tests Chimera Network Impairment capabilities



Assuring the quality EUE for VoIP and other UCaaS applications is an essential requirement. Read the Tolly report to find out how Chimera lets you accomplish this task.

[DOWNLOAD NOW](#)

Plotting the performance landscape for 5G RAN packet networks



This White Paper explains why Ethernet impairment testing can enable efficient and cost-effective testing of dynamic 5G-RAN packet networks

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Network Impairment Emulation Webinar



Watch this webinar to learn how to advanced 5G wireless applications and use Circuit Emulation while testing the accuracy and robustness of IEEE 1588 PTP and Y.1731

[WATCH NOW](#)

CHIMERA TRAINING VIDEO

- Step-by-step guide to how Chimera works using Xena's live demo system. [Watch now](#)
- How to add some basic types of latency and jitter to Ethernet traffic using Chimera. [Watch now](#)
- How to use Chimera to limit the bandwidth of Ethernet packet flows passing through a device, using the policers and shapers of the impairment pipeline. [Watch now](#)
- How to use Chimera flow filters to map incoming packets to up to 8 different flows per port. Each flow can then be independently impaired. [Watch now](#)
- How and why Xena's Chimera impairment emulator can help with performance testing of 5G Fronthaul. [Watch now](#)



XENA VALUE PACK



3 years' SW updates included

When you buy any of our Valkyrie, Chimera, Vulcan or Vantage solutions, all the software licenses are included – plus you can download all the updates released during the next 3 years.



3 years' HW warranty included

We cover the cost of fixing hardware problems for 3 years after purchase



Technical support also included

Xena offers free online/email support for the lifetime of the product.

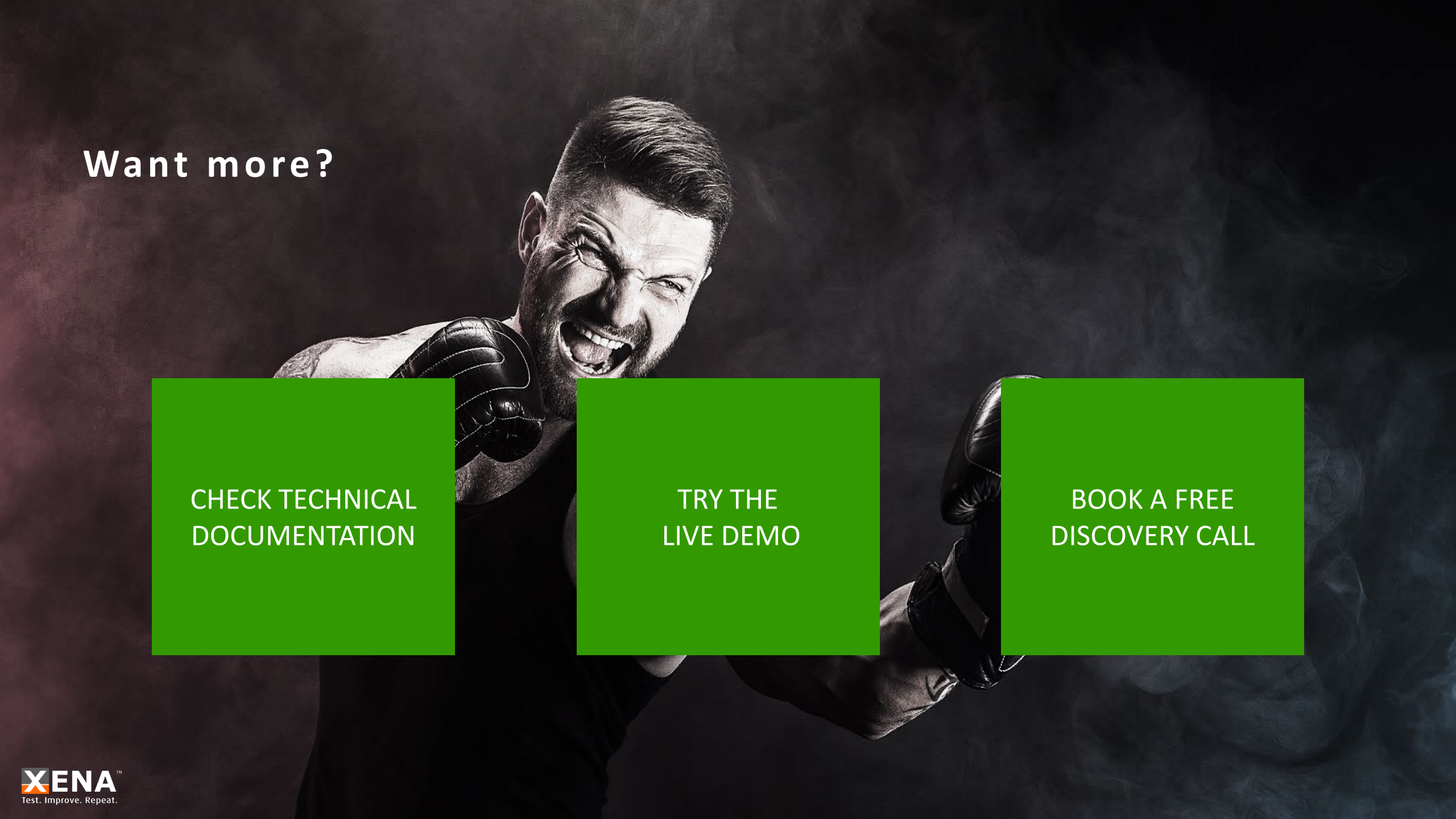


Free product training

We strive to make user-friendly solutions and provide comprehensive technical documentation. But if you'd also like some one-on-one technical training, we're happy to oblige.



Test. Improve. Repeat.

A man with a beard and short hair, wearing black boxing gloves and a black shirt, is shown from the chest up. He has a determined, intense expression on his face, with his mouth open as if shouting or exerting effort. He is positioned in the center of the frame, with his arms slightly raised. The background is dark and smoky, creating a dramatic atmosphere.

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