

CHIMERA

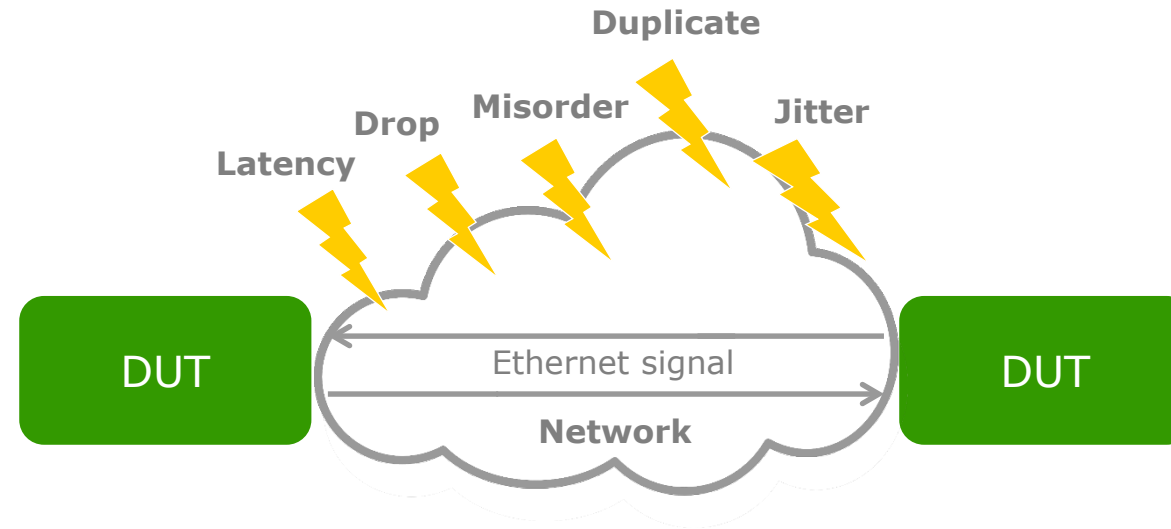
NETWORK IMPAIRMENT EMULATOR

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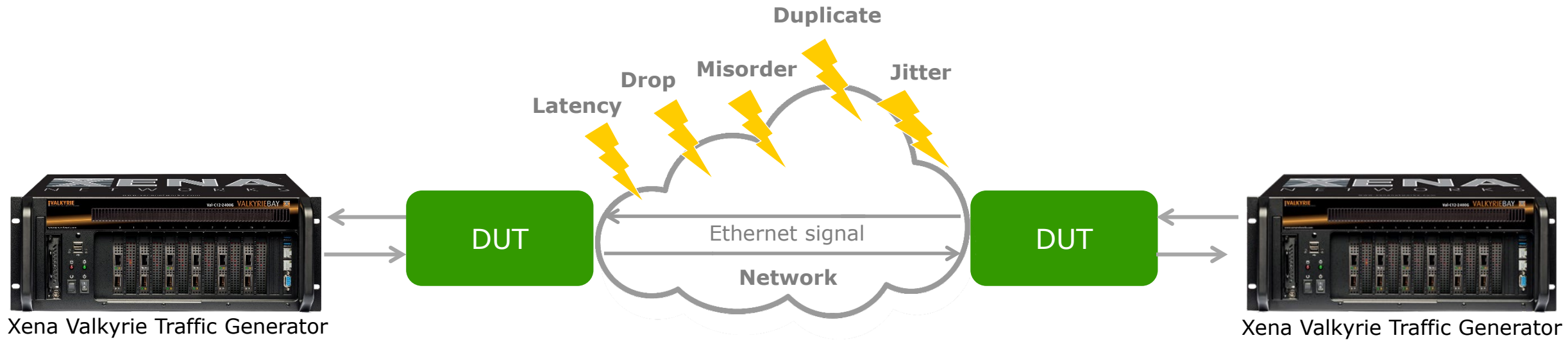
Story

Chimera is a network impairment emulator that makes it easy to analyze the impact of latency, packet loss and other impairments between DUTs in the lab at 10GE, 25GE, 40GE, 50GE and 100GE.



Manufacturers of network equipment needs to test new or updated products. Testing may include transmitting signals through a network:

- Worst-case condition behavior
- Performance testing through an Ethernet network under realistic network conditions



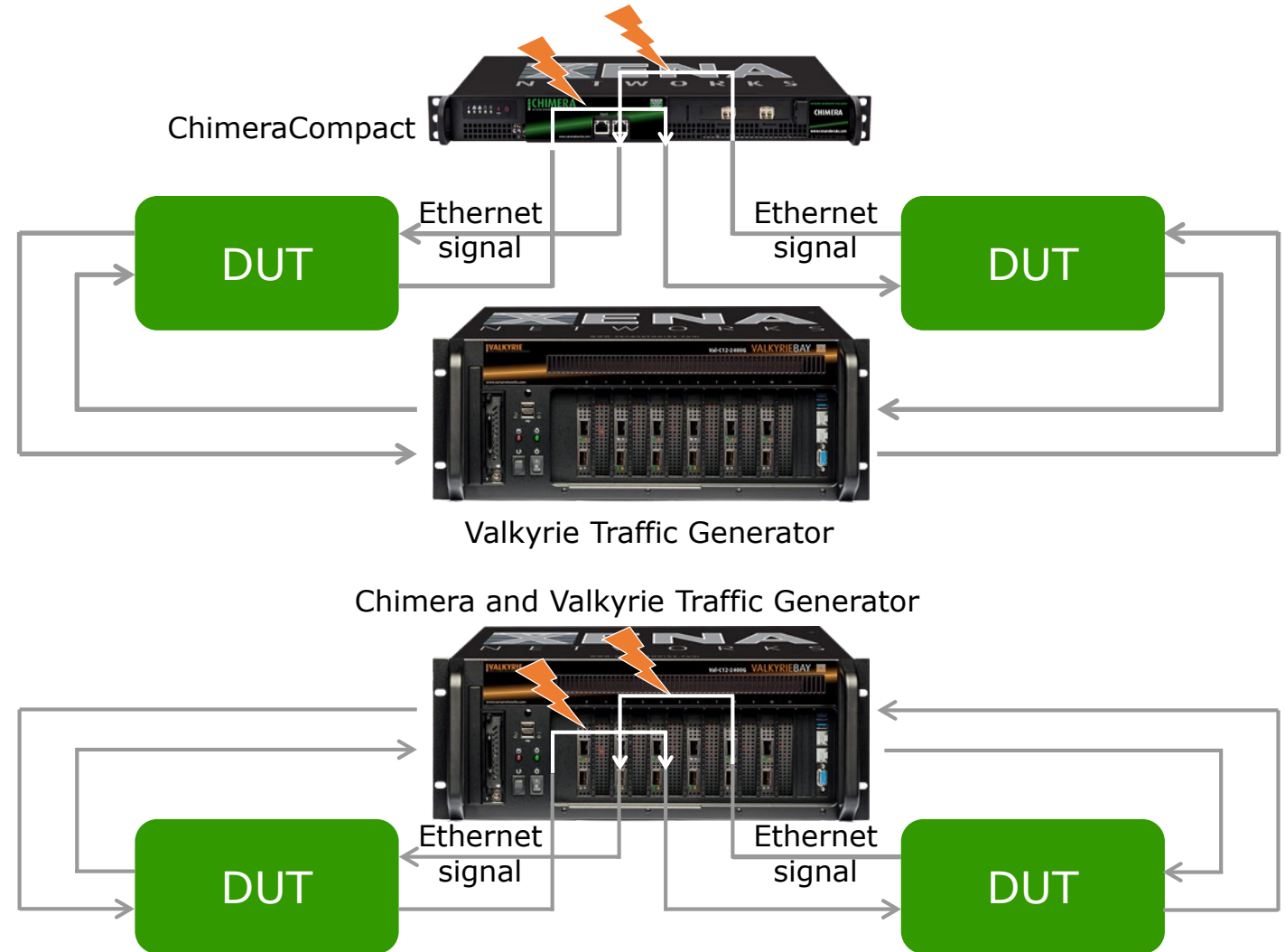
You typically use a traffic generator to generate well-defined traffic

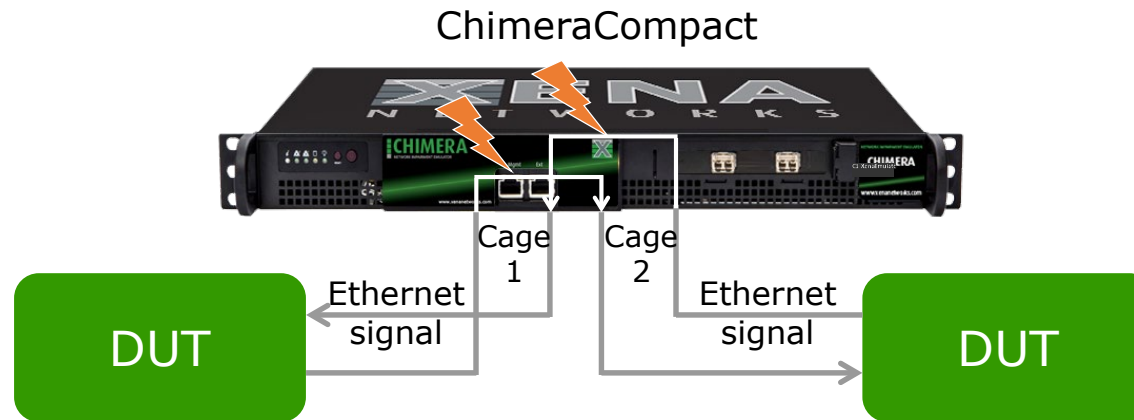
Network behavior can be unpredictable:

- You will experience latency and maybe also other signal impairments

With a network impairment emulator like Chimera you can introduce consistent, accurate, well-defined and repeatable impairments to the traffic between the DUTs – in the lab

- Chimera and Valkyrie Traffic Generator can be installed in the same chassis





Testing may be also done just using a traffic impairment emulator (i.e. without the traffic generator)



Applications

Chimera is a valuable tool for NEMs who want to optimize Quality of Experience (QoE) for customers by ensuring their equipment can handle acceptable levels of impairment. This is relevant for manufacturers of switches, routers, NICs and Fronthaul/backhaul platforms.

Test applications:

- Benchmarking
- Stress testing/Negative testing
- “What-if” testing
- Regression testing

Service providers, enterprises, and government agencies that own or run networks can use Chimera to validate that they can deliver a satisfactory Quality of Service (QoS) for all voice, video, and data traffic.

This makes Chimera relevant for anyone tasked with ensuring the performance of:

- Financial applications
- Voice and video traffic
- Cloud and network applications
- Enterprise applications
- WAN optimization
- Carrier Ethernet
- Routing and MPLS
- Satellite networks
- SLA planning and validation
- Data centers
- Network security



Hardware



Chimera is a 2-cage test module that fits into a Bay (occupying 2 slots) and a Compact chassis





Software



Chimera's impairment functions are accessible directly from **ValkyrieManager**.



A web UI called **ChimeraManager** will be released later this year enabling impairment to be added to traffic between 2 DUTs.

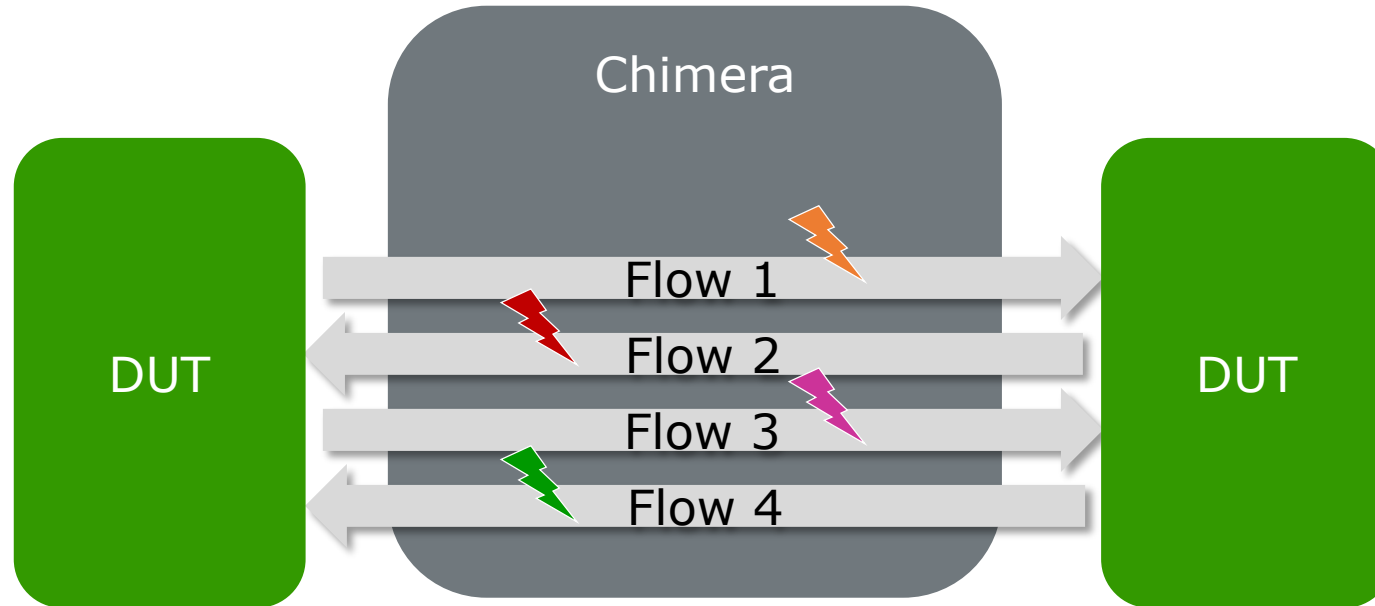


ValkyrieCLI is available for all scripting and test automation purposes.

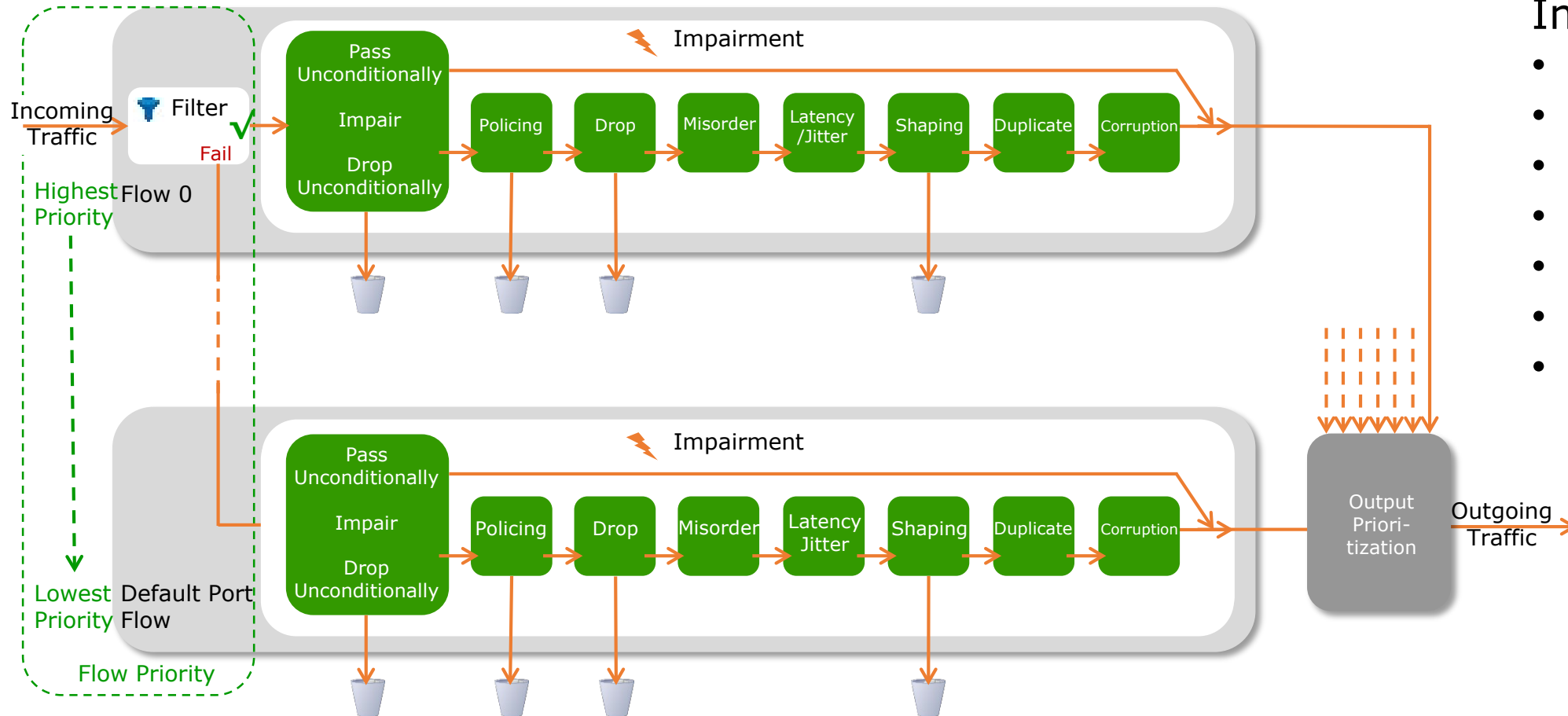


Key Features

FLOWS



- Traffic is divided in up to 8 flows that are impaired individually
- Flows are defined by protocol contents in packet header
 - May also be defined by Xena Valkyrie test packet ID



Impairments:

- Drop
- Latency/Jitter
- Misorder
- Duplicate
- Policing
- Shaping
- Corruption



Roadmap



Future features releases:

Stay up to date
follow <https://xenanetworks.com/comingsoon>

COMING SOON



Summary

What?

Chimera is a network impairment emulator that makes it easy to analyze the impact of latency, packet loss and other impairments between DUTs in the lab at 10GE, 25GE, 40GE, 50GE and 100GE.

For who?

- NEMs who want to optimize Quality of Experience (QoE) for customers by ensuring their equipment can handle acceptable levels of impairment. This is relevant for manufacturers of e.g switches, routers, NICs and Fronthaul/backhaul platforms
- Customers that own or run networks can use Chimera to validate satisfactory Quality of Service (QoS) for all voice, video, and data traffic. E.g. service providers, enterprises and government agencies

Top issues Chimera solves:

- With the Chimera network impairment emulator like you can introduce consistent, accurate, well-defined and repeatable impairments to the traffic between the DUTs – in the lab

Why Chimera?

- Integration with Valkyrie traffic generators
- Wide range of impairments
- Ease of use

Thank you



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