

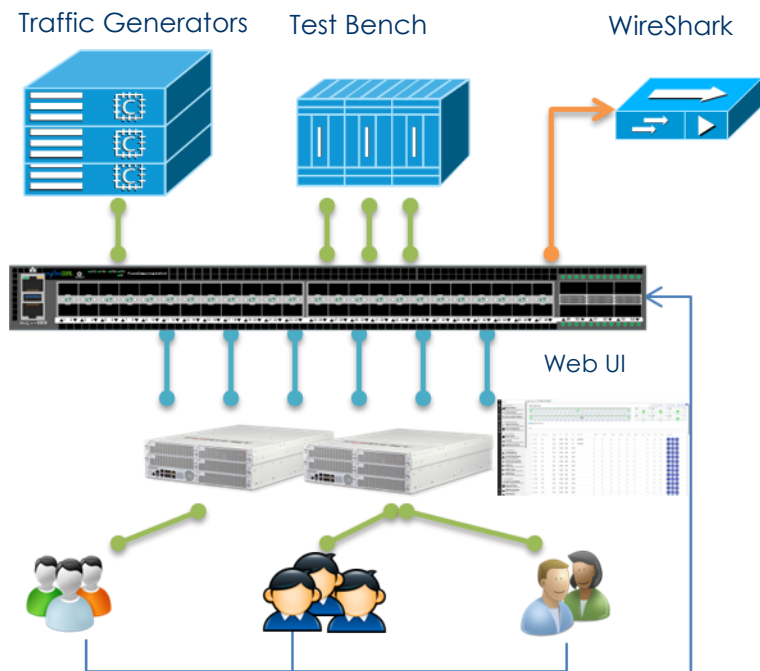


## Boost Engineers' Productivity in 1/10/25/40/100Gbps Era

As networks rapidly transition to 10/25/40/100Gbps and beyond, the demand for next-generation high-speed products and services continues to surge. This shift places increasing pressure on engineers to deliver feature-rich, high-performance solutions with shorter development cycles. Engineers developing 1/10/25/40/100Gbps products often encounter complex issues that typically require costly test equipment to diagnose. These challenges are further compounded by a lack of visibility into the actual network traffic. FlowDirector was purpose-built to address these challenges by equipping engineers with enhanced traffic visibility and control. It empowers teams to work more efficiently and solve problems faster. This brief highlights two standout applications of FlowDirector that showcase how it can significantly improve lab workflows and boost engineering productivity.

### 1 Efficient Sharing of Prototypes and Traffic

Prototype units and 1/10/25/40/100G traffic generators are often limited, forcing developers to work in shared environments. FlowDirector streamlines resource sharing—enabling multiple engineering teams to efficiently share Devices Under Test (DUTs) and traffic generators, significantly improving productivity and resource utilization.



FlowDirector offers a set of features that enable administrators to implement resource sharing seamlessly—without concerns about service interruptions, topology changes, or cable management. Key capabilities include:

- Easy-to-Use Reservation System.
- Virtual Wire Technology Designed to Replace Complex Physical Cabling.

### Two Killer Applications of FlowDirector

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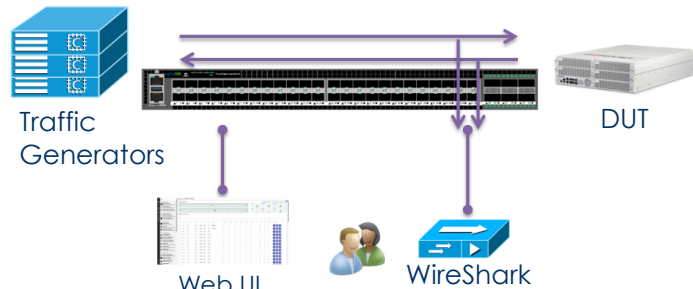
- Unified Web UI with Simple Switching Between Traffic Modes.
- Comprehensive Visual Representation of Network Topologies and Device States.

### 2 Full Visibility for Debugging 1/10/25/40/100Gbps Networks

Frequent testing is essential during development. Each code change must be validated and debugged when issues arise. Faster cycles through testing and debugging lead to quicker, more accurate feature delivery and shorter time-to-market. However, debugging at 1/10/25/40/100Gbps can be time-consuming due to the complexity and limited visibility into high-speed traffic.

- Unlike at 1Gbps, sniffing traffic at 10/25/40/100Gbps can cause issues to disappear by inadvertently slowing down the Device Under Test (DUT). Similarly, reducing to 1Gbps often makes the problem unreproducible.
- It is neither scalable nor efficient to use traditional tap to gain visibility cross multiple ports.
- Cable management can become chaotic when setups are shared across multiple teams.

With FlowDirector, engineers can dynamically create tap ports without disrupting traffic between the tester and DUT. Additional options are available to fine-tune tap behavior to match specific lab setups.



Engineers can take advantage of the following FlowDirector features:

- Capture traffic without impacting the DUT or traffic generators
- Capture wire traffic after Network Interface Card handling
- Reliable analytical results—eliminates false “checksum errors” caused by Network Interface Card offloading features.

In addition to its outstanding capabilities and features, InfiniCore® FlowDirector is a cost effective solution that can be used in a wide range of applications. Please visit us at <http://www.infinicoreinc.com> for more information or email us at [info@infinicoreinc.com](mailto:info@infinicoreinc.com) for any questions.