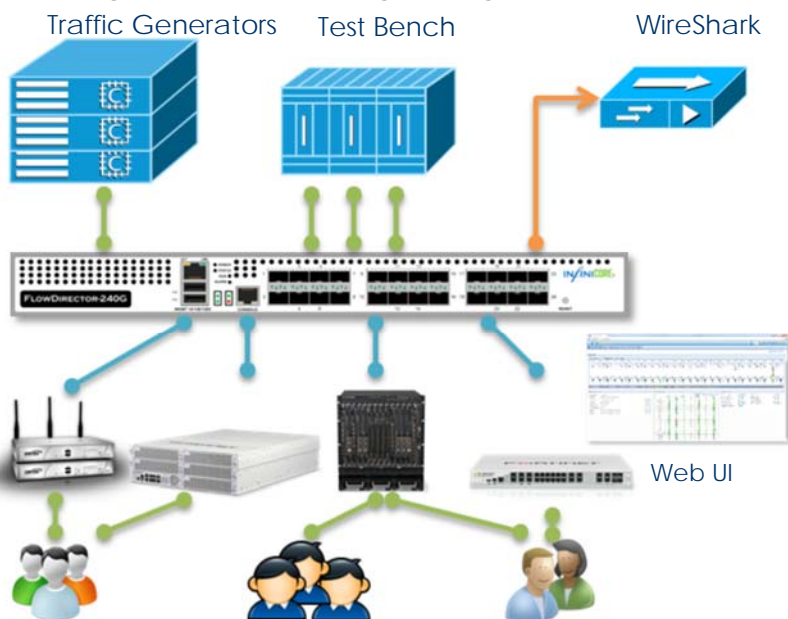




As networks move towards 10Gbps and beyond, demands for next generation 10Gbps products and services are heating up. It puts pressure on engineers to develop products that are feature-rich, high-performance and with short time-to-market. Engineers who work on 10Gbps products are constantly facing problems that may require expensive test equipment to uncover. Moreover, the problems are made worse due to lacking of visibility into the traffic on the wire. To help engineers work efficiently and provide better visibilities into the traffic, we purposefully designed the FlowDirector. Among many applications FlowDirector supports, two killer applications stands out and are included in this solution brief to demonstrate what you can build on top of the FlowDirector to improve lab efficiency and boost engineers' productivity.

## 1 Share Prototypes and Traffic Generator Ports Efficiently

It is common that in most of companies the prototype units and 10G traffic generator are limited in number. Most of developers needs to complete their work in a shared environment. The FlowDirector can greatly improve the efficiency when it comes to share DUTs and traffic generators across engineering teams.



The FlowDirector provides the following functions to help lab administrators implement resource sharing without worrying service interruption, topology changes and cable management. The FlowDirector has the following unique features:

- Intuitive Reservation Management
- Innovative Virtual Wire Technologies to eliminate physical cable management.

## Boost Engineers' Productivity in 10Gbps Era

### Two Killer Applications of FlowDirector

[Continued from the left]

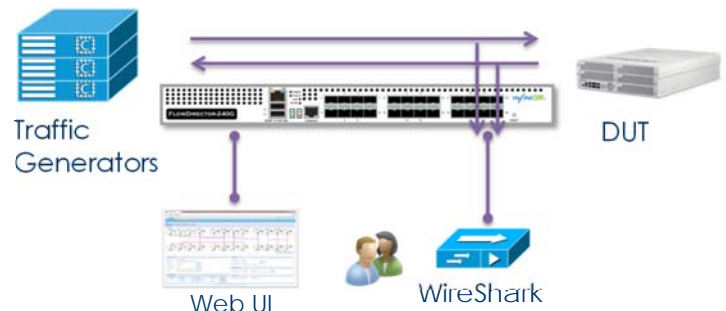
- Fully integrated Web UI and easy to switch between traffic modes
- All topologies and device status are displayed graphically with full clarity

## 2 Debugging 10Gbps with Full Visibility

It is a good practice to test the changes often. Every code improvements need to go through test phase. Engineers start to debug when issues are found. The quicker engineers can circle through the three phases, the faster features get completed correctly, hence shorten time-to-market. However, the debug phase can be time consuming when it comes to 10Gbps:

- Unlike 1Gbps, sniffer traffic at 10Gbps from DUT often makes issue disappear because it slows down DUT. Downgrading the speed to 1Gbps can often makes problem irreproducible as well
- It is not scalable and efficient to use traditional tap to gain visibility on multiple ports
- It can be chaotic when comes to cable management

With the FlowDirector, engineers can dynamically create tap ports while running traffic undisturbed between tester and DUT. Engineers can use additional options to fine tune tap for their specific setups.



Engineers can benefit from the following advantages the FlowDirector provides:

- Capture the traffic without disturbing DUT or traffic generators
- Capture the packets on wire after post processing done by Network Interface Card
- Dependable analytical results. No more artificial "Checksum Errors" produced by the offloading features on NIC Card

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.