

# NoviFlow and Barefoot Networks Demo Cybersecurity and Network Monitoring on 6.5Tb/s Tofino Wedge 100B Switches at OCP US

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[/EINPresswire.com/](#) -- [NoviFlow's](#) CyberMapper™ Running on Fully Programmable Barefoot Tofino™

Together with Barefoot Deep Insight™ Offers Sophisticated Analytics, Enhanced Network Performance, Security and Flexibility

NoviFlow Inc., a leading vendor of high-performance programmable switching and routing solutions, and [Barefoot Networks](#), maker of Tofino, the networking industry's fastest domain-specific processor, have joined forces to demonstrate live at Open Compute Project (OCP) US Summit Booth #C1 how the world's first network monitoring system to provide full visibility into every packet in a network can be combined with a fully programmable Cybersecurity framework and OCP Wedge 100B switching hardware. The powerful new solution offers network operators, cloud

providers, hyperscale data centers, and enterprises worldwide unprecedented levels of awareness, control, threat detection, and mitigation.

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CyberMapper and Deep Insight show how linking deep analytics on every packet with a programmable Threat Intelligence Gateway can deliver powerful cybersecurity embedded in the OCP network fabric.”

*Dominique Jodoin, President and CEO, NoviFlow*

Barefoot Deep Insight is the world's first network monitoring system, providing a ready-to-use production software solution that leverages the full power of Inband Network Telemetry (INT) delivering packet-level visibility into network events and anomalies including traffic patterns, path changes, micro-bursts, congestion problems, latency spikes, and load-balancing issues. An intelligent and programmable triggering mechanism gives the option for only the interesting network events to be detected and reported in real time.

NoviFlow's CyberMapper Threat Intelligence Gateway provides a channel for Deep Insight to tap directly into the network forwarding plane automatically filtering out irrelevant data and instantly changing network behavior when problems or threats are discovered. Machine learning can also be employed to achieve stateful baselining of the network performance and automatic detection of anomalies at any time scale and with nanosecond resolution.



**NoviFlow**  
networks made programmable



**BAREFOOT**  
NETWORKS

The demonstration is delivered using Barefoot Networks' 6.5Tb/s Tofino Ethernet switch ASIC, the world's fastest P4-programmable switch silicon running NoviFlow's NoviWare NOS on a OCP Wedge 100BF-65X switch. Barefoot's technology, together with P4 programming language and the rich ecosystem around it, has enabled network equipment and software vendors to deliver agile and intelligent solutions to their customers.

NoviFlow's industry-leading NoviWare NOS takes advantage of this paradigm shift, implementing a fully programmable and extensible match-action pipeline that exposes the advanced capabilities of Barefoot's Tofino switch chip to controllers and applications running open standards including OpenFlow, gRPC, P4 Runtime. The combination enables functions such as:

- \* Detailed per-packet visibility at nanosecond precision using Barefoot Smart Programmable Real-time INT (SPRINT™)
- \* In-switch layer 4 Load Balancing at line rate
- \* Cybersecurity mitigation for applications such as DDoS protection, DPI-based Threat Detection, and Predictive Analytics.

“Barefoot Deep Insight, together with our P4-programmable Tofino Ethernet switch ASIC, for the first time, enables network operators to see what every packet in the network is doing,” said Craig Barratt, CEO of Barefoot Networks. “This deep and granular visibility enabled by our Smart, Programmable and Real-time INT provides a powerful foundation for NoviFlow's CyberMapper product, enabling robust threat defense solutions for the Cybersecurity market.”

Dominique Jodoin, President and CEO of NoviFlow explained, “CyberMapper and Deep Insight together show how linking deep analytics on every packet with a truly programmable Threat Intelligence Gateway can deliver incredibly powerful cybersecurity directly embedded in the OCP network fabric! CyberMapper links Cybersecurity applications directly into programmable forwarding planes via RESTful APIs, making it easier, faster, and less costly for cybersecurity OEMs and developers to increase throughput by as much as 10X without having to build their own SDN control layer.”

The CyberMapper/Deep Insight solution, as well as NoviFlow's NoviWare running on Barefoot's Tofino will be demonstrating live in Barefoot's booth (#C1) at the OCP US Summit March 20th and 21st, 2018 in San Jose, California. All interested parties are invited to see the world's highest-performance SDN switching solution in action.

## ABOUT NOVIFLOW

NoviFlow Inc. provides open standard-based high-performance SDN networking solutions to network operators, data center operators and enterprises seeking greater performance, flexibility, cost-efficiency, and security over their networks. NoviFlow has offices in Montreal, Sunnyvale, and Seattle, and representatives in Asia Pacific, Europe, and the Middle East. For more information, visit <http://noviflow.com/>. Follow NoviFlow on Twitter @NoviFlowInc.

## ABOUT BAREFOOT NETWORKS

Barefoot Networks launched in 2016 after two years of developing technology for building not only the fastest switches, but also ones that allow the forwarding plane to be defined in software. By enabling organizations to define the network forwarding plane in software, Barefoot empowers network owners

and their infrastructure partners to design, optimize, and innovate to meet their specific requirements and gain competitive advantage. In combining the P4 programming language with fast programmable switches, Barefoot has also created an ecosystem for compilers, tools, and P4 programs to make P4 accessible to anybody. Backed by Google Inc., Goldman Sachs Principal Strategic Investments, Alibaba, Tencent, and by premier venture capital firms Sequoia Capital, Lightspeed Venture Partners, and Andreessen Horowitz, Barefoot Networks is headquartered in Silicon Valley. For more information, visit <http://www.barefootnetworks.com>. Follow us on Twitter: @barefootnetwork. Follow us on Facebook <https://www.facebook.com/barefootnetworks>

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