

TOYO Corporation Issued Patent For Data Recording Technology On Packet Capture System

“Data recording apparatus and method” patent covers high-speed network data capture without data loss enabling big data analytics and network forensics

Tokyo, Japan, Sep 4, 2018 -TOYO Corporation, the leading test and measurement company, today announced that it was issued an intellectual patent for the data recording technology used in their SYNESIS network recorder. Titled “Data recording apparatus and method,” the patent invention number is JP 6377304. The technology described in the patent pertains to the world’s first packet capture system released in 2015 that captures 100G Ethernet at full line rate and was engineered by TOYO Corporation.

The increase in the number of connected devices, the growth of IoT and the advancement of big data analytics require faster and faster networks. Consequently, the demand for dedicated packet capture systems is increasing at a faster pace for network troubleshooting and forensic purposes. The challenge confronted by many is the fact that traditional storage devices used by packet capture systems tend to be unstable when capturing for extended periods of time. A dedicated device such as an access load management device is often used, and with it a higher cost, to overcome this challenge.

TOYO’s SYNESIS can keep up with the fastest of networks without having to rely on expensive and sometimes unreliable access equipment. This is achieved through two unique patented technologies. The first is parallel write processing which takes advantage of the high-speed external storage array designed into the SYNESIS product to accelerate data write operations. The second are the SYNESIS load balancing algorithms that efficiently distribute and thus optimize data movement across the same storage array. These technologies enable SYNESIS to perform long term capture even at 100Gbps full line rate without incurring any packet loss. No other packet capture system in the marketplace can achieve this level of performance.

SYNESIS Key Advantages

SYNESIS is a high-performance capture and analysis system for 1G/10G/40G/100G Ethernet interfaces with sustained rates of up to 100Gbps.

- **Capture without loss:** Capture and directly stream high volume traffic to storage without any packet loss
- **High speed extraction:** Reduce the time to extract packets by saving indexing information
- **Portable and Distributed models:** For 1G/10G/40G/100G

SYNESIS Online Resources

SYNESIS Product Information: <https://www.synesis.tech/>

SYNESIS Video: https://www.youtube.com/watch?v=N55-LT_4sjI

About TOYO Corporation

TOYO Corporation (TSE: 8151) is a Japanese technology company headquartered in Tokyo, Japan, with subsidiaries in the United States and China. Since its founding in 1953, TOYO has become the leading distributor of advanced measurement instruments and systems in Japan. TOYO also engages in original product designs and develops advanced solutions for many of the markets that it serves including automotive, sustainable energy, and cybersecurity industries. TOYO's innovative products are used by many leading companies in Japan, the United States and APAC countries, helping TOYO's customers accelerate development, reduce time-to-market, and improve product quality. For more information, please visit the company's website at <https://www.toyo.co.jp/english/>.

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