The Network Industry's First 100G Packet Capture Appliance





Capture 100% / Replay 100%

BENEFITS

- ✓ Improve customer experience
- ✓ Prevent loss of business due to network downtime
- ✓ Insure network infrastructure vendors have complete data for troubleshooting
- ✓ Extend the value of existing network tools with automated actions
- ✓ Reduce network operating cost with better team collaboration and efficiency

HIGHLIGHTS

- ✓ Full line rate capture with no packet loss, with patented stream to disk technology
- ✓ Support for 1G/10G/25G/40G/100G interfaces
- ✓ Capture weeks, even months of network data
- ✓ Replay captured traffic ,even 100Gbps
- ✓ Simple, intuitive yet powerful GUI
- ✓ All-in-one appliance
- ✓ Multi-Language support
- ✓ Web browser based Protocol Analyzer with realtime decode.
- ✓ Wireshark analyzer can be installed as a plugin
- ✓ Strong data indexing provides fast packet retrieval from storage
- ✓ Detect microburst traffic in 100 microsec intervals
- ✓ Multi-TB captured packets playback in microsecond level allowing to replay microburst traffic

SYNESIS is a network data recorder that can continuously capture up to **100Gbps**. SYNESIS, an all-in-one packet capture system, is easily deployed in data centers, remote site branches, and test labs as a physical appliance. Configuration is minimal so it can be installed and capturing high speed traffic in minutes.

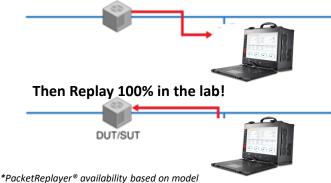
Existing network tools just can't keep up with today's traffic rates caused by increased user demand for bandwidth intensive applications. The result - oversubscription of tools which leads to misdiagnosis. Only **SYNESIS** is able to capture all network packet data completely and at high granularity.



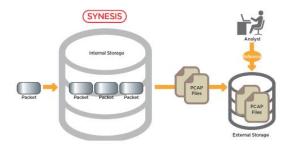
Now with PacketReplayer®!

Replay single packets or data from extended long-term capture sessions. Perfect application for R&D/QA and Field Support teams!

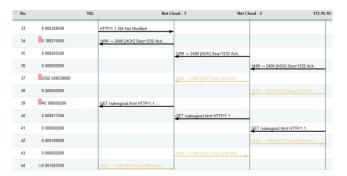
Capture 100% of network traffic in the field..



Packet Capture



Smart Analytics (Ladder View)

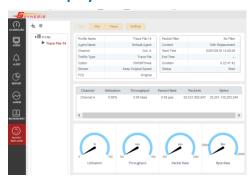


SYNESIS is a capture appliance compatible with 10M/100M/1G/10G/40G/100G networks that can capture traffic at wire speed without loss using our patented data processing algorithm. A backup function allows saving to PCAP files automatically while capturing. The storage destination can either be a local or remote file system.

MFA (Multi Flow Analysis) provides a visual representation of connections with corresponding ladder diagrams to better understand how transactions propagated.

Application Performance Monitoring Support
Indexed with KPI (Key Performance Indicator), network
status can be ascertained at a trend level basis.

PacketReplayer®



PacketReplayer - Replay real life traffic

Real-life wire-rate traffic capture and replay up to **100Gbps** with micro-second level packet gap granularity. The following headers may be filtered and replaced within each frame in a PCAP file to be generated.

- -MAC address
- -VLAN ID
- -IP address (v4/v6)

Customizable Dashboards



Customized and Profiling Dashboard

The Dashboard displays real-time trend information for each selected agent. Each user may customize dedicated dashboards at the widget and page level. Multiple dashboard profiles may be created.

Intelligent Report Builder





Users may drag-and-drop modular pre-defined graphic components to build templates which may then be applied to create daily, weekly, and monthly or ad-hoc reports.

Intelligent report engine with drag and drop ability

System Specifications

Model	SYU/SYC- 2G-ER	SYU/SYC- 4G-R	SYU/SYC- 8G2-HCR	SYU/SYC- 10G-ER	SYU/SYC- 20G-HPR2	SYU/SYC- 40G-HPR2	SYU/SYC- 80G2-HPR2	SYU/SYC- 100G-HPR2	SYU/SYCC-ES	SYU/SYCP-ES	
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Monitoring Port	4 x 1GbE	4 x 1GbE	8 x 1GbE	2 x 10GbE/1GbE	4 x 10GbE/1GbE	4 x 10GbE/1GbE	8 x 10GbE/1GbE	4 x 10GbE/1GbE, 2x 40G QSFP 2x 100G QSFP28	-	-	
Interface	100/1000 BASE-T,1000 BASE-SX/LX			10G BASE-T/SR/LR/ER, 1000BASE-T/SX/LX			K/LX	100G SR4/LR4	-	-	
Capture Performance	2Gbps	4Gbps	8Gbps	10Gbps	20Gbps	40Gbps	80Gbps	100Gbps	-	-	
Local Storage (TB)	30.0	9.0	95.0	9.0	32.5	65.0	130.0	162.5	95.0	32.5	
Time stamp resolution	1ns	1ns	1ns	1ns	1ns	1ns	1ns	1ns	-	-	
RAID	5	5	6	5	6	6	6	6	-	-	
PacketReplayer	-	Υ	-	-	Υ	Υ	-	Υ	-	-	
PTP/1PPS syncro	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	-	-	
Power (W) 100V-240VAC	350	350	1100	350	1100	Control 1100 x 1unit Storage 600 x 1unit	Control 1100 x 1unit Storage 600 x 3unit	Control 1100 x 1unit Storage 600 x 4unit	600	600	
Operating temperature/ humidity	10-35°C /50-95°F /8%-85%(noncondensing)										
Weight (Kg)	14.0	14.0	22.0	14.0	22.0	Control unit:22 Storage unit: 24 (each unit)			24.0	24.0	
Dimensions H x W x D (cm)	4.3 x 43.4 x 53.5	4.3 x 43.4 x 48.4	8.7 x 44.4 x 71.6	4.3 x 43.4 x 48.4	8.7 x 44.4 x 71.6	Control unit: 8.7 x 44.4 x 71.6 Storage unit: 8.7 x 48.2 x 54.1			8.7 x 48.2 x 54.1	8.7 x 48.2 x 54.1	

Model	SYU/SYC- 2G-EP2	SYU/SYC- 4G-HPP2	SYU/SYC- 10G-EP	SYU/SYC- 20G-HPP2	SYU/SYC- 40G-HPP2	SYU/SYC- 80G2-HPP2	SYU/SYC- 100G-HPP2	SYU/SYC- 200G-HPP
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Monitoring Port	4 x 1GbE	4 x 1GbE	2 x 10GbE/1GbE	4 x 10GbE/1GbE	4 x 10GbE/1GbE	8 x 10GbE/1GbE	4 x 10GbE/1GbE 2 x 40G QSFP+ 2 x 100G QSFP28	4 x 100G QSFP28
Interface	100/1000 BASE-T ,1000 BASE-SX/LX		100	BASE-T/SR/LR/E	R, 1000BASE-T/SX	//LX	100G SR4/LR4	100G SR4/LR4
Capture Performance	2Gbps	4Gbps	10Gbps	20Gbps	40Gbps	80Gbps	100Gbps	200Gbps
Local Storage (TB)	1.5	3.9	3.9	11.0	19.0	44.5	57.5	100.0
Time stamp resolution	1ns	1ns	1ns	1ns	1ns	1ns	1ns	1ns
RAID	-	÷	-	-	-	-	-	-
PacketReplayer	-	Υ	-	Υ	Υ	-	Υ	Υ
PTP/1PPS syncro	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Power (W) 100V-240VAC	400	400	400	400	400	680	800	800
Operating temperature/ humidity		10-30C/50-90F/8%- 85%(noncondensing)						
Weight (Kg)	9.0	9.0	9.0	9.0	9.0	13.4	19.8	22.0
Dimensions H x W x D (cm)		42.0 x 43.0 x 25.0						

Unlike the networks of yesterday, today's networks are much more complex and the traffic volume they carry are magnitudes higher in comparison.

Identification of a network issue is a good first step towards resolution. However, it becomes more challenging to get to the root cause – to really find out what is happening on the network.

If your analyzer does not have the ability to capture all packets over an extended period of time, a resolution is highly unlikely.

From "The Forgotten Requirement of Network Analysis"





TOYO Corporation

