

PureFlow™ WS1

Unified Network Controller

TCP acceleration function license

NF7500-L201A

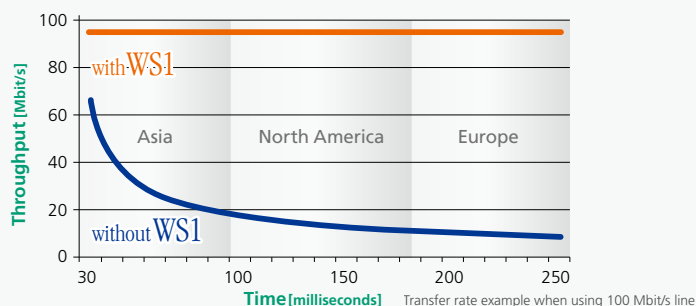


Are you experiencing long transfer times when moving large files between distant sites?

With TCP acceleration, transfer times are substantially reduced between geographically distant locations. Additional functions can be added to the Unified Network Controller WS1 at any time.

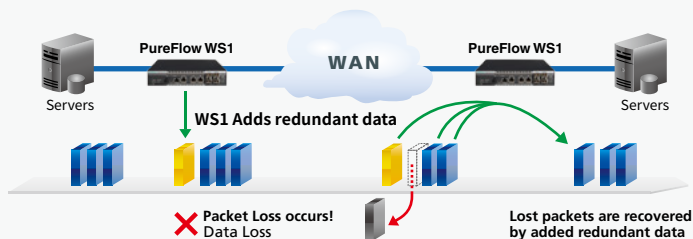
Decrease data transfer times over long distances.

PureFlow WS1 was specifically designed to optimize TCP traffic flows, mitigating the negative effects of packet loss and latency while transferring large amounts of TCP data at high speed over long distances. By creating an optimized high performance data transfer environment, PureFlow WS1 contributes to a substantial increase in throughput, enabling the rapid globalization of corporate activities.



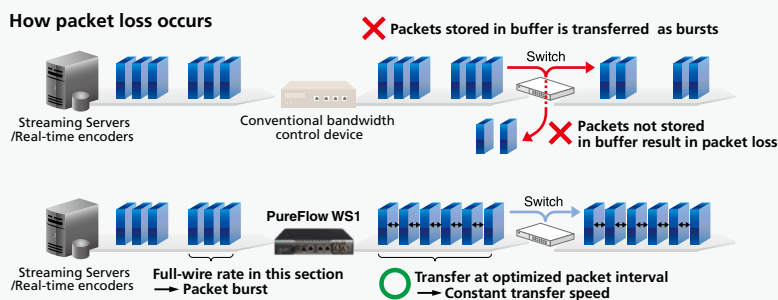
Ensure an efficient network.

An optional FEC function license eliminates the negative effects of typical packet loss, one of the primary causes of decreased TCP throughput, ensuring efficient communications links over lossy networks.



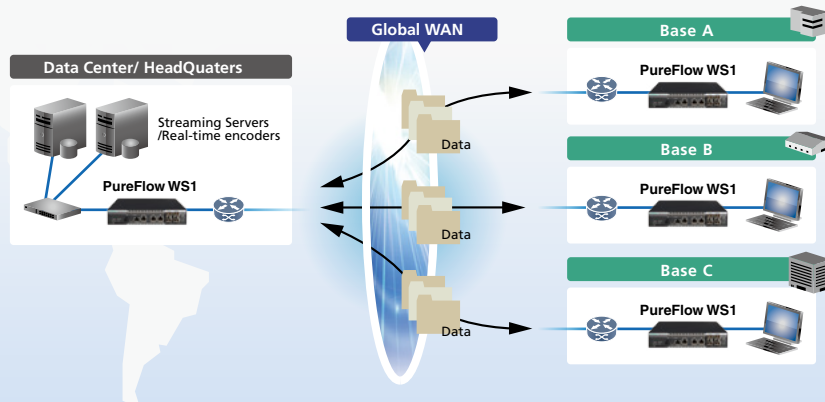
Precise High Performance Shaping.

PureFlow WS1 is designed to eliminate bursting and controls packet transmission with microsecond accuracy. It maximizes bandwidth by eliminating microburst packets resulting in loss, thus guaranteeing audio and video quality for the ideal streaming experience.



Use Cases

- Global Design and Manufacturing
- Global Content Sharing
- Disaster Recovery Measures



● Specifications (The TCP acceleration function license)

Item	Specification		
Model	NF7501A		
Controllable Bandwidth	1kbit/s to Standard 100Mbit/s to Maximum 1Gbit/s *1		
Scenarios	Maximum number of Scenarios	Standard 2,048 Maximum 4,096 *2	
	Maximum hierarchy levels	4 levels	
	Scenario type	Acceleration mode, Aggregate mode, Individual mode, Discard mode	
Filters	Maximum number of filters	10,000	
Rule List	Maximum number of group	1,024	
	Maximum number of entry	512	
Flows	Maximum number of flows	512,000	
Interface	Network Ports		
	Port 1 and 2 select RJ-45 or SFP *3. Port 3 and 4 select SFP *3 Available SFP : 1000BASE-SX, 1000BASE-LX, 10/100/1000BASE-T		
	Network Bypass Ports	Applicable port	Port 1, 2 (RJ-45)
		Applicable standard	10BASE-T/100BASE-TX/1000BASE-T
	Console Port		RS-232C (RJ-45) x1, miniUSBx1
	SD card Slot		SD Card x1
	USB Port		USB 2.0 Connector Type : Type A
Management Ethernet Port		10BASE-T/100BASE-TX/1000BASE-T	
QoS Bandwidth Control	Controllable Traffic		
	VLAN Tag (IEEE802.1Q), QinQ (IEEE802.1ad), IPv4, IPv6		
	Controllable Items	Layer 2	VLAN ID, CoS, Ethernet-Type
		Layer 3	IP address, Protocol Number, ToS (IPv4), Traffic Class (IPv6)
		Layer 4	TCP/UDP Port Number
Bandwidth Setting		Minimum guaranteed bandwidth, Maximum allowed bandwidth, Packet buffer size, Priority (8 level)	
TCP Acceleration	Supported Protocol		
	TCP (IPv4/IPv6)		
	Maximum number of TCP Session		40,000
	Maximum number of TCP-FEC Session *4		400
	Compression		ZIP
	Congestion Control		High Speed TCP (High Speed Adaptive TCP)
	Network Connection		In-Path, Out-Of-Path
	Acceleration Bypass		Bypass Transfer (RTT measurement, TCP connection error, KeepAlive error, Forced)
SMB Protocol Acceleration	Redundancy		Secondary Peer Transfer
	Maximum number of SMB session	Version	1,000 SMB2.0.2, SMB2.1
VLAN		VLAN Tag (IEEE802.1Q), QinQ (IEEE802.1ad)	
Remarking function		Correspondence	
Maximum Frame size	Network Port	2,048 bytes or 10,240 bytes	
	Management Ethernet Port	1,518 bytes	
Operation Management	Configuration	CLI via serial console/Telnet/SSHv2, RADIUS authentication, WebAPI, WebGUI, OpenFlow *5	
	Management	CLI via serial console/Telnet/SSHv2, SNMPv1/v2c/v3, Enterprise MIB, SYSLOG, Peak rate monitor, WebGUI, OpenFlow *5	
	Other	Traffic monitoring by Monitoring Manager 2. *6	
Other Special Function		Link down transfer function, Network bypass function	
Power Supply		AC100V-AC127V, AC200V-AC240V 50/60Hz ±2Hz	
Power Consumption		85VA or less, 65W or less	
Environmental Conditions	Operating Temperature	0 to 40°C / 32 to 104F	
	Operating Humidity	20 to 80% (non condensing)	
Dimension / Weight		42(H), 212(W), 375.5(D) mm (excluding protrusions) / 2.2kg or less	
Safety		UL62368-1, CSA C22.2 No.62368-1-14, EN60950-1	
EMC/EMI		VCCI-A, FCC-A, EN55032-A, RCM, JIS C 61000-3-2	

*1 : Base Model bandwidth is limited to 100Mbit/s, and optional Bandwidth License is required to extend to 200Mbit/s, 400Mbit/s, 700Mbit/s, or 1Gbit/s.

*2 : Base model scenario is 2,048 scenarios, and optional Scenario Expansion Licenses are required to extend to 4,096 scenarios.

*3 : SFP is optional parts.

*4 : An optional FEC function license is required.

*5 : When setting and managing with OpenFlow, you need an optional license.

*6 : Optional monitoring software "Monitoring Manager 2 (NF7201A)" and a server machine are required.

PureFlow Series LINE UP

PureFlow WS1 Series [Line bandwidth: 100M~1Gbit/s]

PureFlow WSX Series [Line bandwidth: 1G~10Gbit/s]



NF7501A



NF7601A
Standard model



NF7603A
Optical bypass model
(1000BASE-SX, 10GBASE-SR)



NF7604A
Optical bypass model
(1000BASE-LX, 10GBASE-LR)

Anritsu envision: ensure

ANRITSU CO., LTD.

<http://www.anritsu.com/>

Appliance Business Dept.

Phone : *+81 3 5320 3551

6-14-1 Nishi-shinjuku, shinjuku-ku, Tokyo